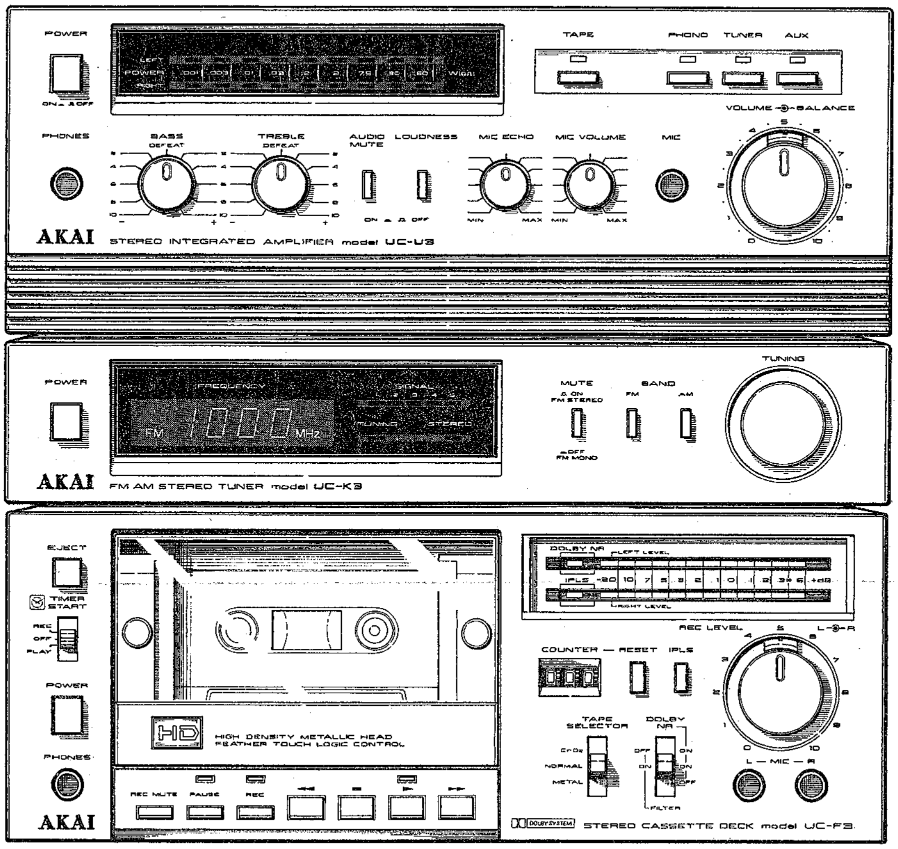
UC-K3/J/L
UC-U3E

AKAI SERVICE MANUAL


POWER
PHONES
BASS
TREBLE
AUDIO MUTE
LOUDNESS
MIC ECHO
MIC VOLUME
MIC
TAPE
PHONO
TUNER
AUX
VOLUME
BALANCE
AKAI
STEREO INTEGRATED AMPLIFIER model UC-U3
POWER
FREQUENCY
SIGNAL
FM 100.0 MHz
TUNING
STEREO
MUTE
BAND
FM
AM
TUNING
AKAI
FM AM STEREO TUNER model UC-K3
EJECT
TIMER START
REC
OFF
PLAY
POWER
PHONES
HD
HIGH DENSITY METALLIC HEAD
FEATHER TOUCH LOGIC CONTROL
REC MUTE
PAUSE
REC
DOLBY NR
LEFT LEVEL
RIGHT LEVEL
REC LEVEL
COUNTER
RESET
IPLS
TAPE SELECTOR
NORMAL
METAL
FILTER
L — MIC — R
AKAI
STEREO CASSETTE DECK model UC-F3

FM AM STEREO TUNER

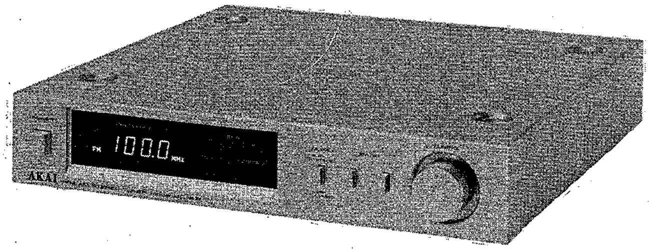
MODEL UC-K3/J/L

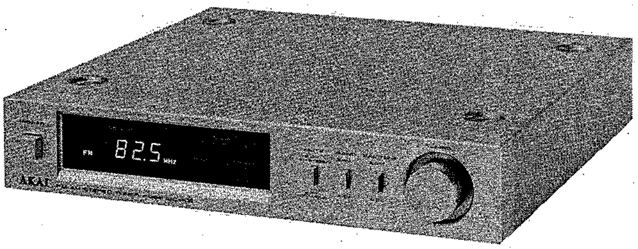
STEREO INTEGRATED AMPLIFIER

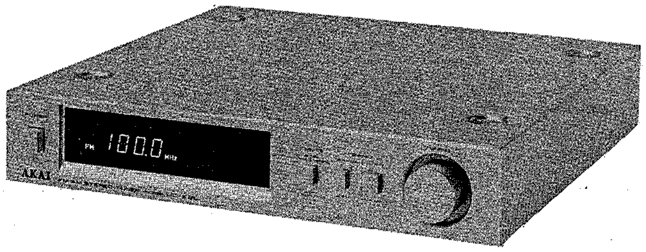
UC-U3E
UC-U3
MODEL UC-U4

STEREO CASSETTE DECK

MODEL UC-F3

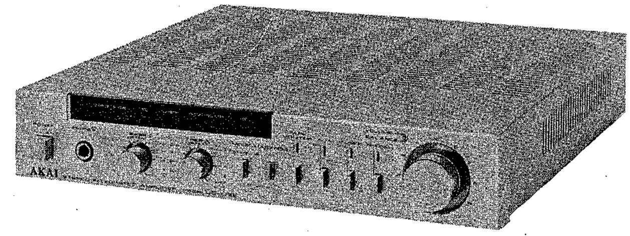

UC-K3


UC-K3J

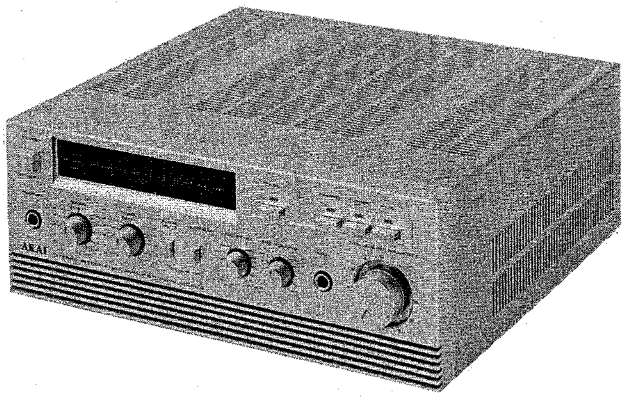

UC-K3L

FM AM STEREO TUNER
MODEL UC-K3/J/L
STEREO INTEGRATED AMPLIFIER
UC-U3E
UC-U3
MODEL UC-U4
STEREO CASSETTE DECK
MODEL UC-F3

SECTION 1 MODEL UC-K3/J/L SERVICE MANUAL 1
SECTION 2 MODEL UC-U3E SERVICE MANUAL 20
SECTION 3 MODEL UC-U3 and UC-U4 SERVICE MANUAL 28
SECTION 4 MODEL UC-F3 SERVICE MANUAL 51
SECTION 5 PARTS LIST 71
SECTION 6 SCHEMATIC DIAGRAM 100

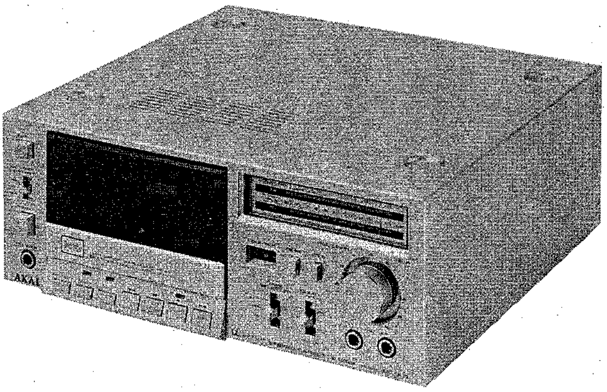


UC-U3E



UC-U3

UC-U4



UC-F3

SECTION 1

SERVICE MANUAL

MODEL UC-K3/J/L

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For basic adjustments, measuring methods, and operating principles, refer to GENERAL TECHNICAL MANUAL.

I. SPECIFICATIONS

FM TUNER SECTION

TUNING FREQUENCY RANGE	87.5 to 108.0 MHz 76 to 90 MHz (JPN)	
USABLE SENSITIVITY (75 ohms)	1.9 μV	
CAPTURE RATIO	1.3 dB	
SELECTIVITY (400 kHz) (IHF)	65 dB	
IMAGE REJECTION	56 dB	60 dB (JPN)
IF REJECTION	90 dB	85 dB (JPN)
SPURIOUS REJECTION	85 dB	
AM SUPPRESSION	60 dB	
SUB CARRIER SUPPRESSION	85 dB	
S/N (MONO/STEREO)	73/65 dB	
T.H.D. (MONO/STEREO)	0.10/0.15%	0.08/0.12% (JPN)
STEREO SEPARATION (1 kHz)	45 dB	48 dB (JPN)
MUTING LEVEL	22 dB	

AM TUNER SECTION

	AM (MW for UC-K3L)	LW (UC-K3L only)
TUNING FREQUENCY RANGE	525 to 1605 kHz	135 to 350 kHz
USABLE SENSITIVITY		
(Bar Antenna)	100 μV/m	200 μV/m
(Ext. Antenna)	10 μV	17 μV
SELECTIVITY (IHF)	30 dB	30 dB
IMAGE REJECTION	48 dB	45 dB
IF REJECTION	33 dB 37 dB (JPN)	33 dB
S/N	50 dB 55 dB (JPN)	50 dB
T.H.D.	0.3%	0.3%

OUTPUT SECTION

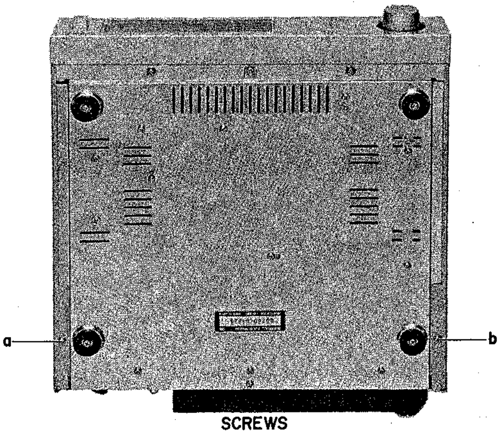
OUTPUT LEVEL	
FM (100% Mod.)	775 mV
AM (30 % Mod.)	250 mV
CAL TONE	388 mV (Japan only)
POWER REQUIREMENTS	100V, 50/60 Hz for Japan 120V, 60 Hz for USA and Canada 220V, 50 Hz for Europe except UK 240V, 50 Hz for UK and Australia 110V/220V/240V, 50/60 Hz internally switchable for other countries.
POWER CONSUMPTION	10W (U/T, CSA, AAL, JPN)
DIMENSIONS	280 (W) x 56 (H) x 272 (D) mm (10.0 x 2.2 x 10.8 inches)
WEIGHT	2.95 kg (11.8 lbs)

*For improvement purposes, specifications and design are subject to change without notice.

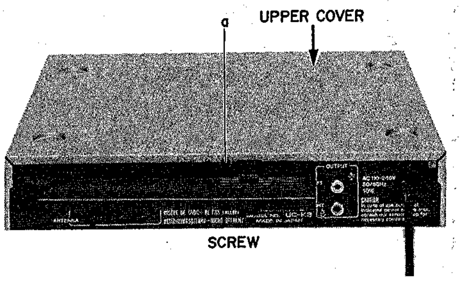
II. DISMANTLING OF UNIT

In case of trouble, etc. necessitating dismantling, please dismantle in the order shown in the photographs. Reassemble in reverse order.

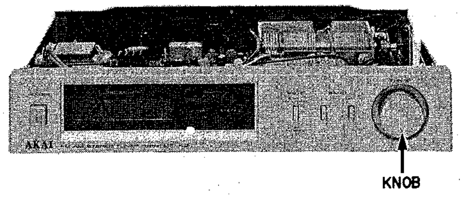
1



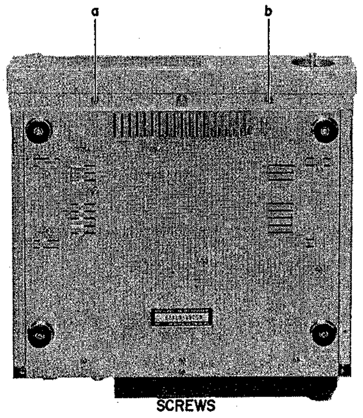
2


a
UPPER COVER
SCREW

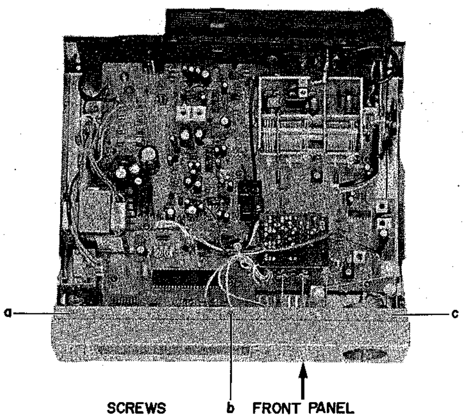
3



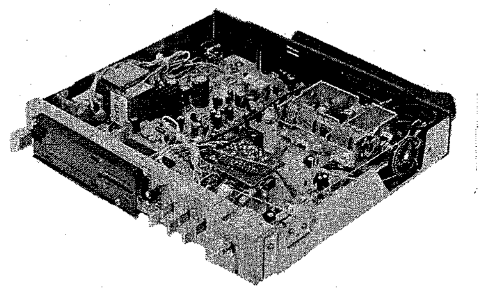
4



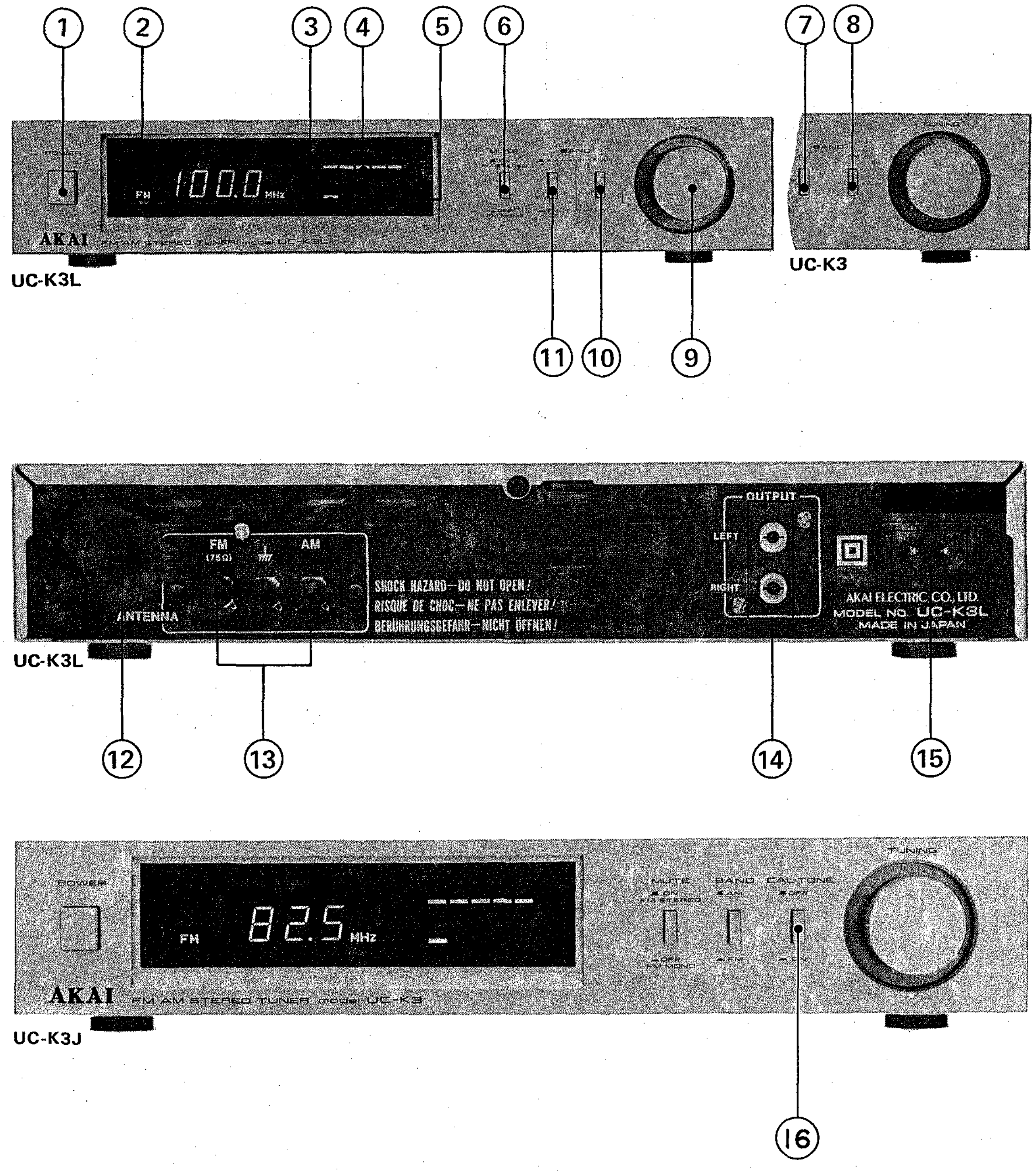
5


a
c
SCREWS
b
FRONT PANEL

6



III. CONTROLS



1
2
3
4
5
6
7
8
UC-K3L
UC-K3
11
10
9
FM
100.0
MHz
AKAI
OUTPUT
LEFT
RIGHT
FM
(75Ω)
AM
ANTENNA
SHOCK HAZARD—DO NOT OPEN!
RISQUE DE CHOC—NE PAS ENLEVER!
BERÜHRUNGSGEFAHR—NICHT ÖFFNEN!
AKAI ELECTRIC CO., LTD.
MODEL NO. UC-K3L
MADE IN JAPAN
UC-K3L
12
13
14
15
POWER
FM
82.5
MHz
MUTE
BAND
CAL TONE
TUNING
AKAI
FM AM STEREO TUNER model UC-K3
UC-K3J
16

Fig. 1 Controls

1. POWER SWITCH
2. DIGITAL LED DISPLAY
3. FM TUNING INDICATOR
4. SIGNAL STRENGTH INDICATORS
5. FM STEREO INDICATOR
6. MUTE SWITCH
7. FM SWITCH (UC-K3 Only)
8. AM SWITCH (UC-K3 Only)
9. TUNING KNOB
10. MW/LW SELECTOR (UC-K3L Only)
11. AM/FM SELECTOR (UC-K3L/K3J)
12. AM FERRITE BAR ANTENNA
13. FM/AM ANTENNA TERMINALS
14. OUTPUT JACKS
15. AC INLET (Some modes are equipped with an AC cord instead.)
16. CAL TONE SWITCH

IV. PRINCIPAL PARTS LOCATION

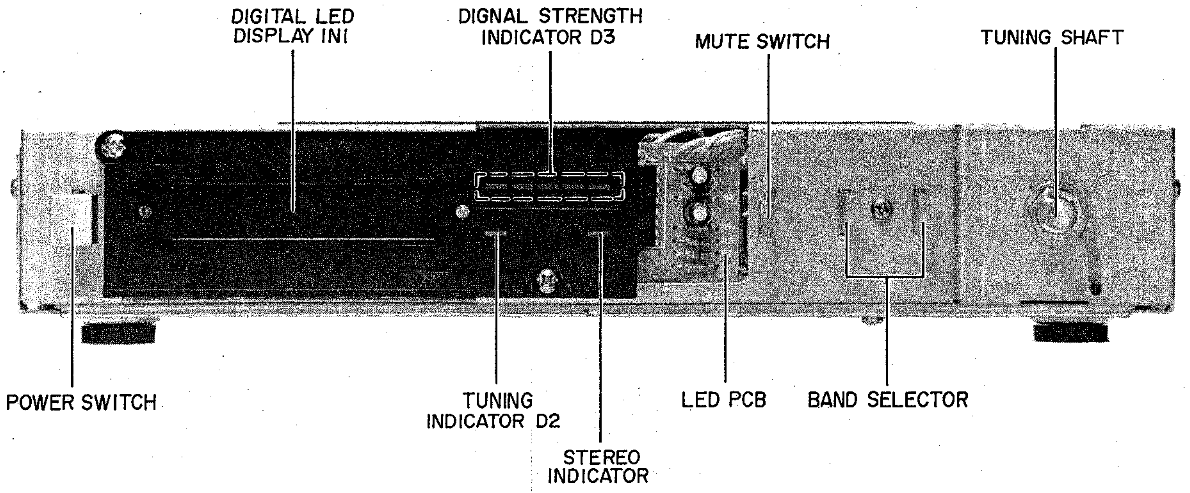

DIGITAL LED DISPLAY IN1
DIGNAL STRENGTH INDICATOR D3
MUTE SWITCH
TUNING SHAFT
POWER SWITCH
TUNING INDICATOR D2
STEREO INDICATOR
LED PCB
BAND SELECTOR

Fig. 2 Front View

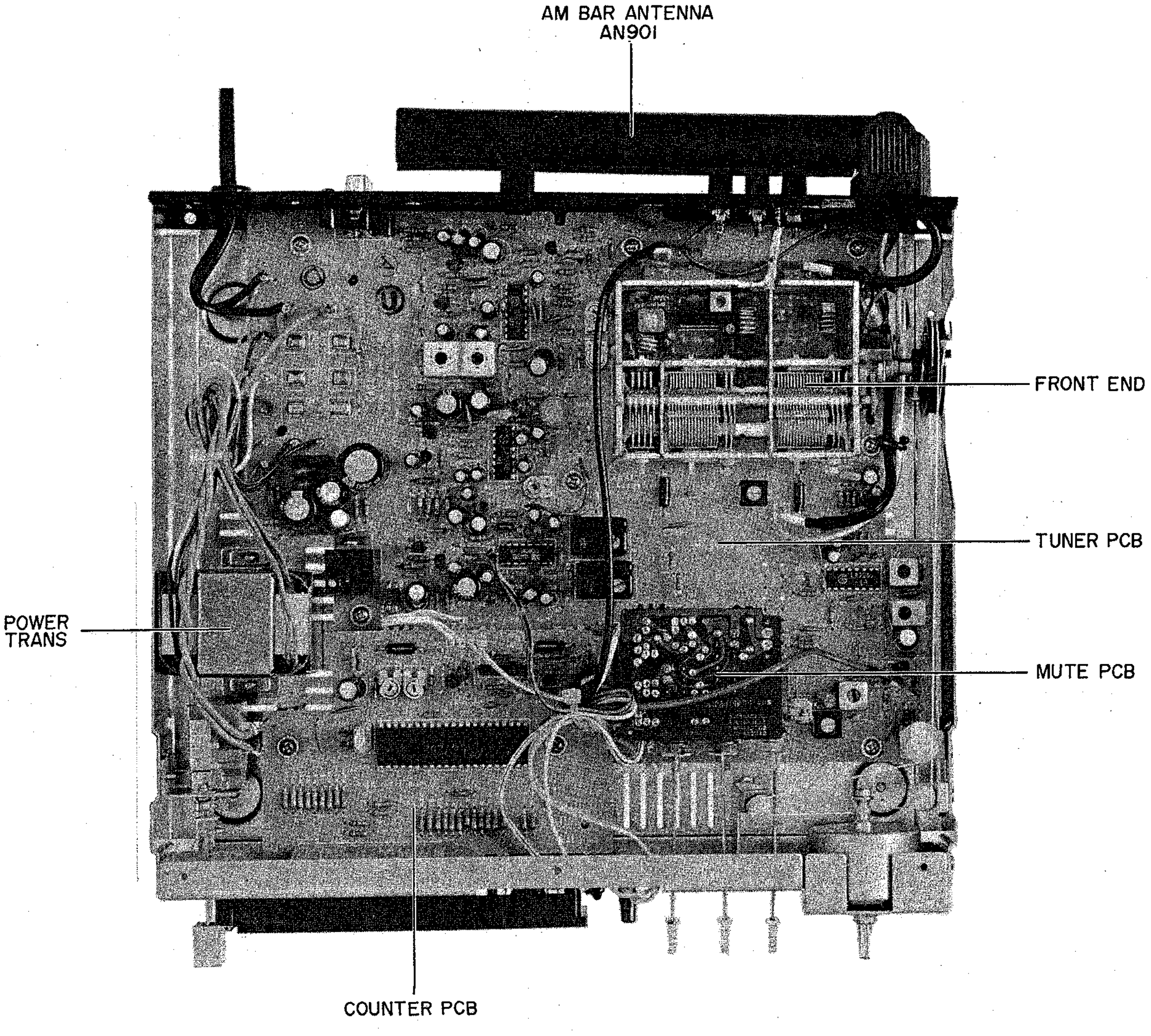

AM BAR ANTENNA AN901
FRONT END
TUNER PCB
POWER TRANS
MUTE PCB
COUNTER PCB

Fig. 3 Top View

V. VOLTAGE CONVERSION

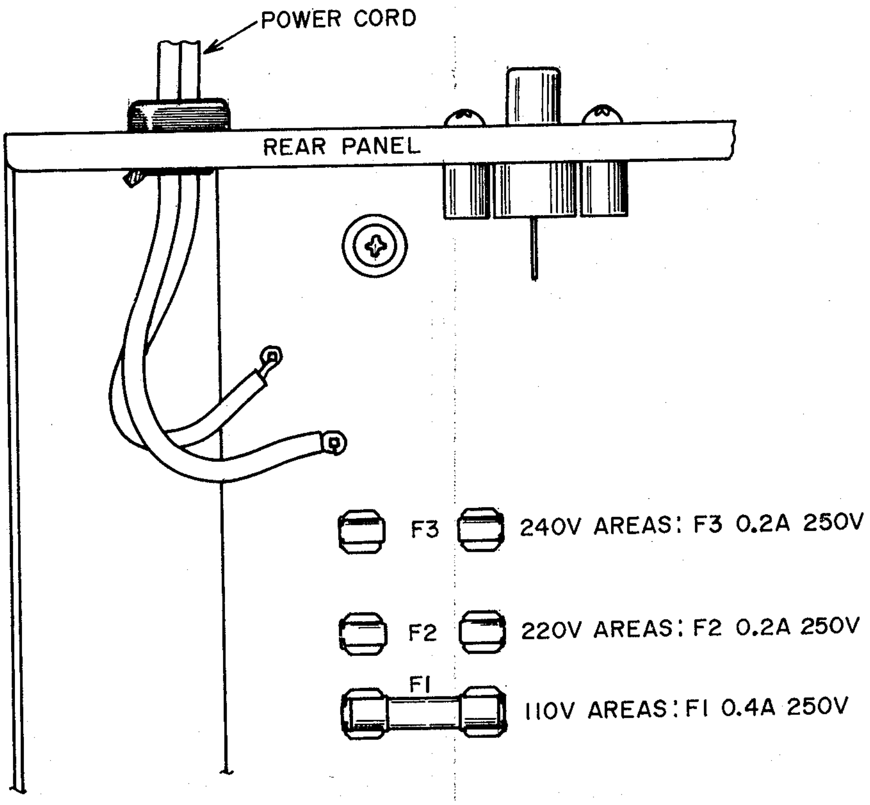

POWER CORD
REAR PANEL
F3
240V AREAS: F3 0.2A 250V
F2
220V AREAS: F2 0.2A 250V
F1
110V AREAS: F1 0.4A 250V

Fig. 4 Voltage Conversion (U/T Model Only)

Models for Japan, Canada, USA, Europe, UK and Australia are not equipped with this facility.
Each machine is preset at the factory according to destination but some machines can be set to 110V, 220V or 240V as required.
If voltage change is necessary, this can be accomplished as follows:

1) Disconnect the power cord.
2) Loosen the holding screws and remove the Upper Cover.
3) Remove the existing Line Voltage Fuse on the Tuner P.C Board and insert the required Line Voltage Fuse into the proper fuse holder. Follow markings explicitly.

VI. ADJUSTMENT

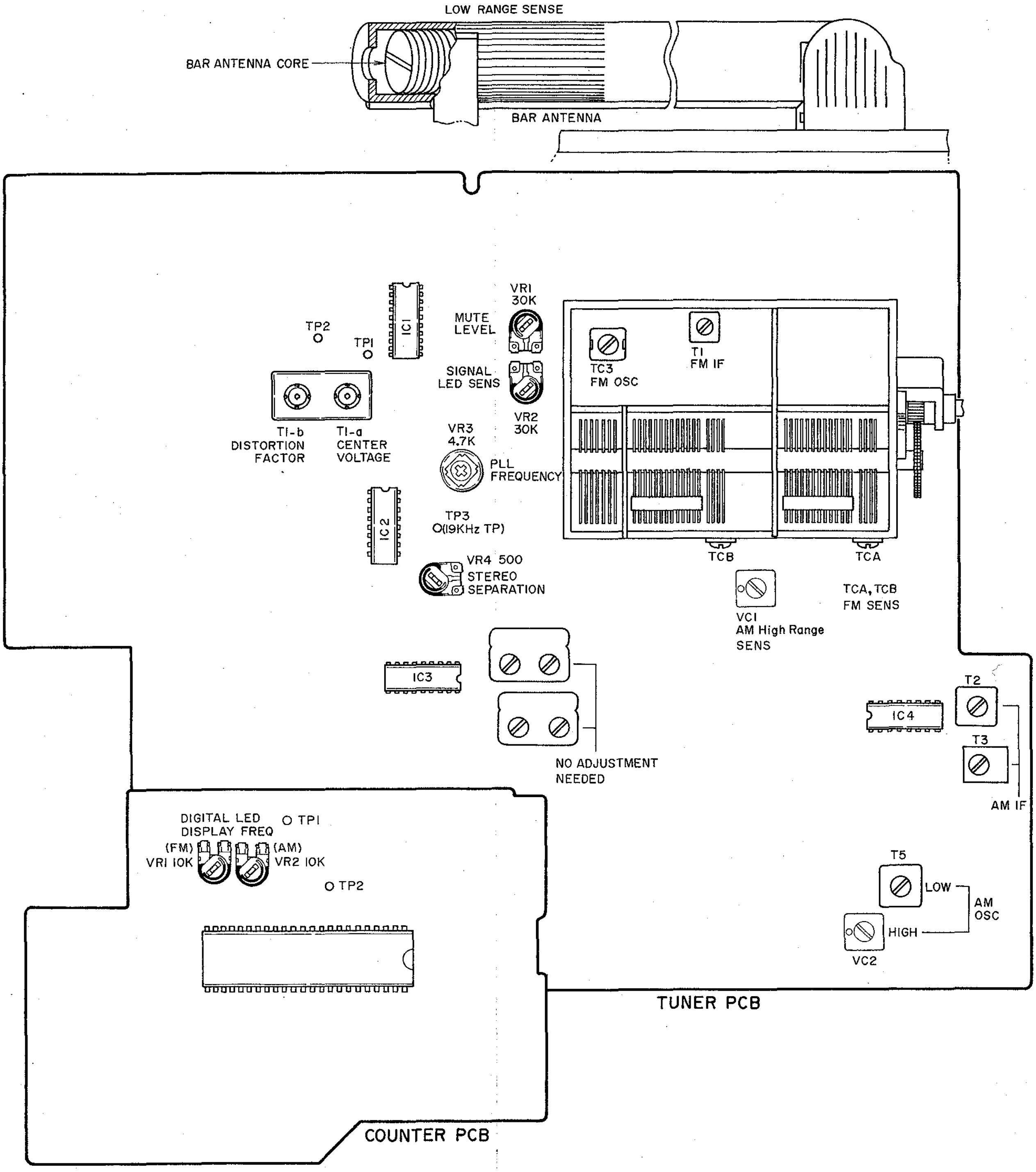

LOW RANGE SENSE
BAR ANTENNA CORE
BAR ANTENNA
TP2
TP1
IC1
VR1
30K
MUTE
LEVEL
SIGNAL
LED SENS
VR2
30K
TC3
FM OSC
T1
FM IF
T1-b
DISTORTION
FACTOR
T1-a
CENTER
VOLTAGE
VR3
4.7K
PLL
FREQUENCY
IC2
TP3
O(19KHz TP)
VR4 500
STEREO
SEPARATION
TCB
TCA
VC1
AM High Range
SENS
TCA, TCB
FM SENS
IC3
NO ADJUSTMENT
NEEDED
T2
IC4
T3
AM IF
DIGITAL LED
DISPLAY FREQ
O TP1
(FM)
VR1 10K
(AM)
VR2 10K
O TP2
T5
LOW
AM
OSC
HIGH
VC2
TUNER PCB
COUNTER PCB

Fig. 5 Tuner P.C Board and Counter P.C Board (Model UC-K3/J)

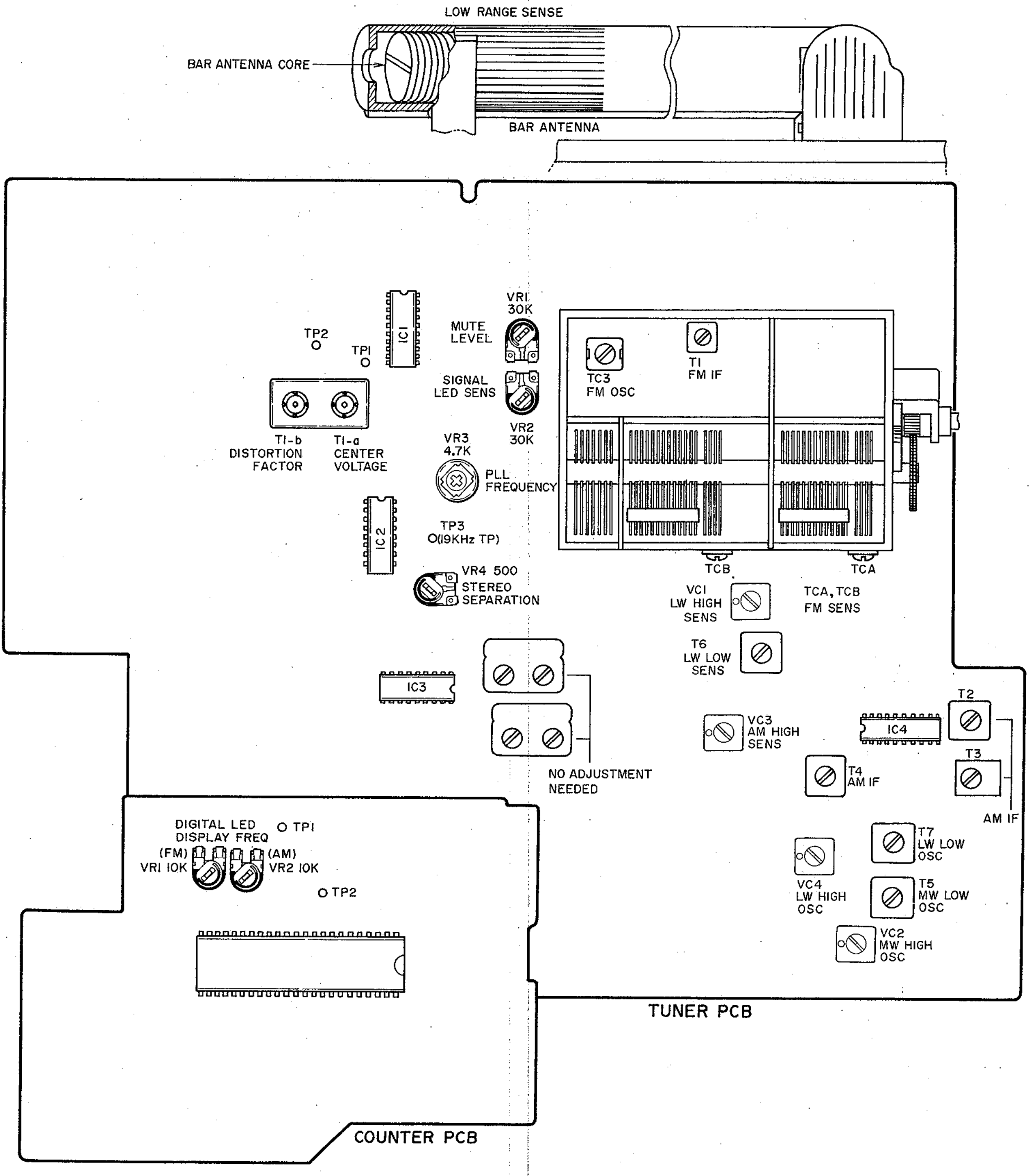

LOW RANGE SENSE
BAR ANTENNA CORE
BAR ANTENNA
VR1 30K
MUTE LEVEL
TP2
TP1
IC1
SIGNAL LED SENS
VR2 30K
T1-b DISTORTION FACTOR
T1-a CENTER VOLTAGE
VR3 4.7K
PLL FREQUENCY
TC3 FM OSC
T1 FM IF
IC2
TP3 (19KHz TP)
VR4 500 STEREO SEPARATION
TCB
TCA
VC1 LW HIGH SENS
TCA, TCB FM SENS
T6 LW LOW SENS
IC3
NO ADJUSTMENT NEEDED
VC3 AM HIGH SENS
IC4
T2
T3
T4 AM IF
AM IF
DIGITAL LED DISPLAY FREQ
TP1
(FM) VR1 10K
(AM) VR2 10K
TP2
T7 LW LOW OSC
VC4 LW HIGH OSC
T5 MW LOW OSC
VC2 MW HIGH OSC
TUNER PCB
COUNTER PCB

Fig. 6 Tuner P.C Board and Counter P.C Board (Model UC-K3L)

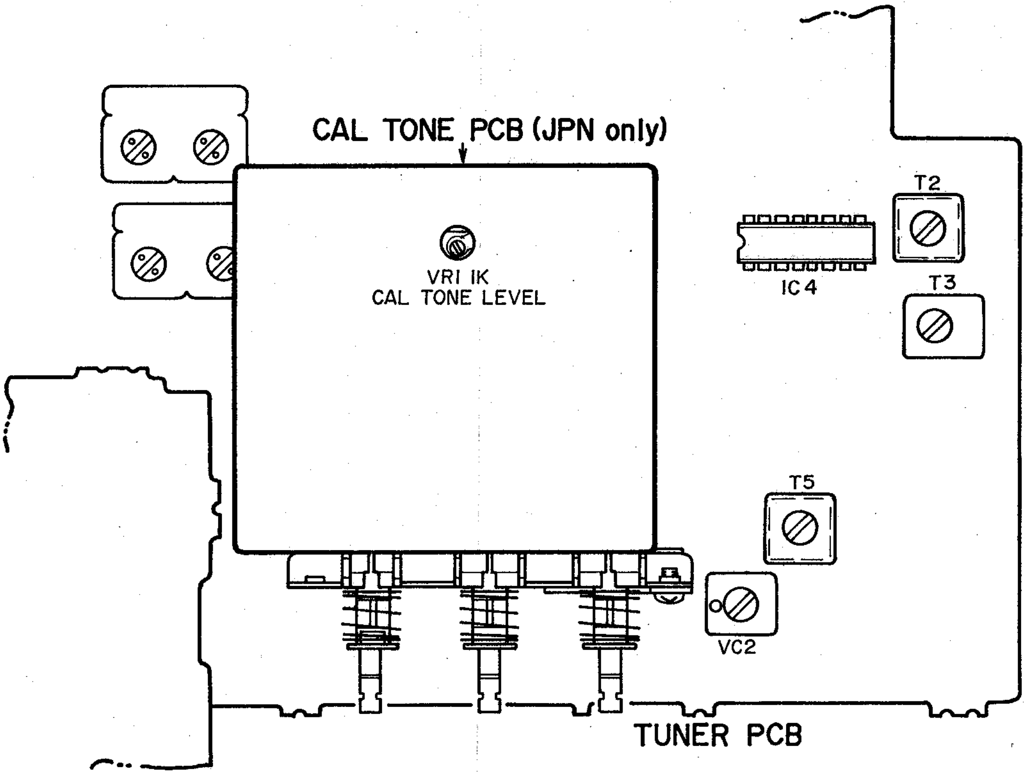

CAL TONE PCB (JPN only)
VRI IK
CAL TONE LEVEL
IC4
T2
T3
T5
VC2
TUNER PCB

Fig. 7 CAL Tone Level Adjustment (JPN Model Only)

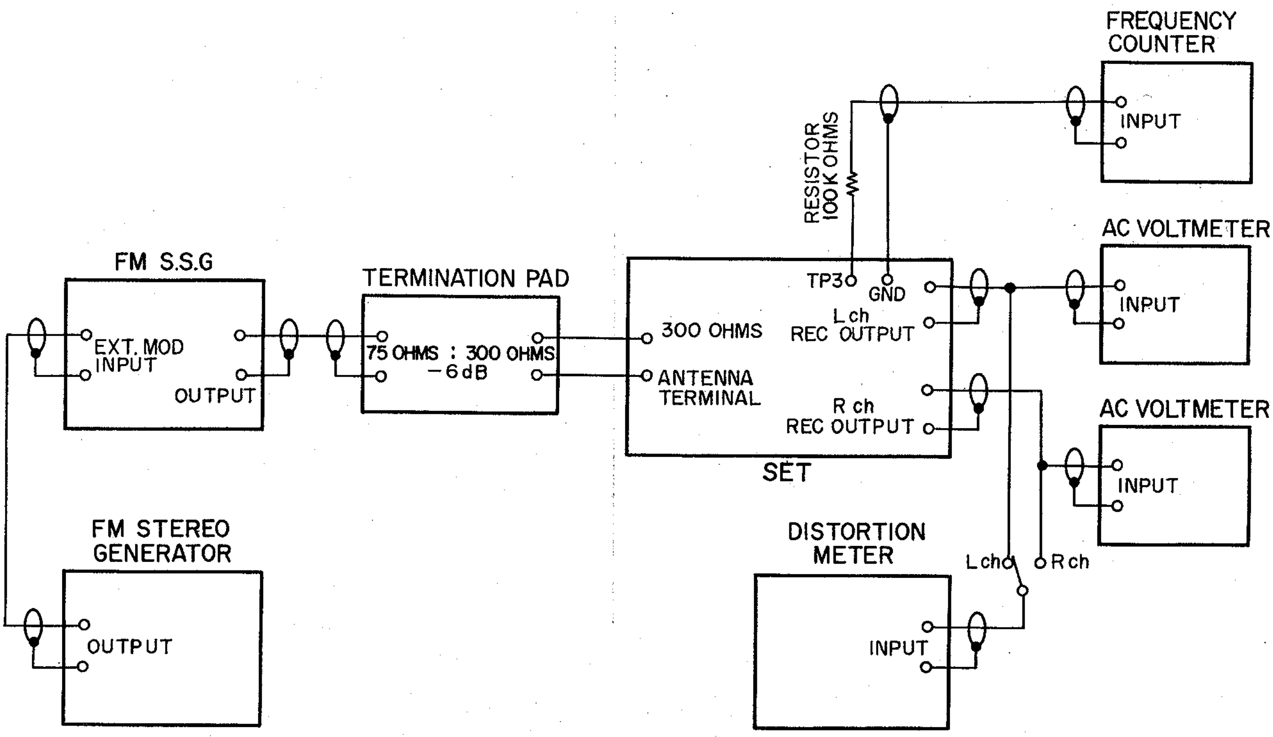

FREQUENCY COUNTER
INPUT
RESISTOR 100K OHMS
AC VOLTMETER
INPUT
FM S.S.G
EXT. MOD INPUT
OUTPUT
TERMINATION PAD
75 OHMS : 300 OHMS
−6dB
300 OHMS
ANTENNA TERMINAL
TP3
GND
L ch REC OUTPUT
R ch REC OUTPUT
SET
AC VOLTMETER
INPUT
FM STEREO GENERATOR
OUTPUT
DISTORTION METER
INPUT
Lch
Rch

Fig. 8 Instrument Connections

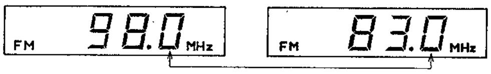
1) FM Section Adjustments (Refer to Figs. 5 to 8)

Unless otherwise specified, use the adjustment points provided on the Tuner P.C Board (Figs. 5, 6)

Step	Adjustment Item	Adjustment Point	Result	Remarks
1	Front-End IF Coil	T1 (BLK) (Front-End)	Maximum Noise Level	BAND switch to FM, and MODE to MONO. Turns only noise without interference from broadcasting.
2	Center Voltage	T1-a	Centered Tuning Meter Indication	Connect a Center Tuning Meter between TP1 and TP2. (See Note 1). Turns only noise without interference from broadcasting.
3	Distortion Factor	Tl-b	Distortion Factor: Less than 0.1%	83 MHz (JPN), 98 MHz (OTHERS), 60 dB 1 kHz (mono 100%) input. Less than 0.1% in both channels.
4				Readjust in Steps 2 and 3.
5	Confirmation of Output Level		0 dBm ± 3 dB	83 MHz (JPN), 98 MHz (OTHERS), 60 dB 1 kHz (mono 100%) input.
6	Signal LED Sensitivity	VR2 (30K)		83 MHz (JPN), 98 MHz (OTHERS), 40 dB 1 kHz (mono 100%) input. Adjust VR2 to a point where 5th LED of SIGNAL LED lights up. (See Note 2)
7	Digital LED Display Frequency	VR1 (10kB) Counter P.C Board		Apply a 83 MHz (JPN), 98 MHz (OTHERS) 60 dB 1 kHz (mono 100%) input. Short TP1 to GND on the Counter P.C Board. Adjust VR1 until 3rd numeral display becomes stable position. (See Note 3)
8	High Range Scale Indication	TC3 (Front-End)		Turn tuning knob fully clockwise. Display 91.0 MHz (JPN), 108.2 MHz (OTHERS) by adjusting TC3.
9	High Range Sensitivity	TCA, TCB (Front-End)	Distortion Factor: Less than 3%	MODE switch to FM MONO. 91.0 MHz (JPN), 108.2 MHz (OTHERS), less than 5 dB, 1 kHz (mono 100%) input.
10	Confirmation of Low Range Sensitibility		Distortion Factor Less than 3%	76 MHz (JPN), 88 MHz (OTHERS), less than 5 dB, 1 kHz (mono 100%) input. (See Notes 4 and 5)
11	Muting Level	VR1 (30K)	22 dB ± 6 dB	MUTE switch to ON. 83 MHz (JPN), 98 MHz (OTHERS), 22 dB 1 kHz (mono 100%) input. Adjust VR1 until the output signal is reduced to zero. Vary the SSG output by ± 6 dB and check muting operation.
12	PPL IC Free Running Frequency	VR3 (4.7K)	19 kHz ± 50 Hz	Connect a Frequency Counter between TP3 and GND on the Tuner P.C Board. (See Note 6)
13	Stereo Separation (Left → Right)	VR4 (500)	More than 40 dB	83 MHz (JPN), 98 MHz (OTHERS), 60 dB 1 kHz (stereo 100%) Lch input. Minimum output of Rch.
14	Stereo Separation (Right → Left)	VR4 (500)	More than 40 dB	83 MHz (JPN), 98 MHz (OTHERS), 60 dB 1 kHz (stereo 100%) Rch input. Minimum output of Lch.
15	Confirmation of Stereo Distortion Factor		Distortion Factor: Less than 0.15%	83 MHz (JPN), 98 MHz (OTHERS), 60 dB 1 kHz (stereo 100%) input. If distortion exceeds 0.15%, first check according to Steps 2, 3, 12, 13 and 14, and then readjust according to Step 1.

Step	Adjustment Item	Adjustment Point	Result	Remarks
16	CAL Tone Level (JPN only)	VR1 (1K) (CAL Tone PCB) (Fig. 7)	388 mV output	CAL Tone Switch to ON.

NOTES:
1. For the Center Meter should be used the tuning meter and the like available as a part of the other models.
2. The 5th LED lights up at 40 dB but when the attenuator is decreased 2 dB it is extinguished.
3. (JPN Only)



The optimum point of adjustment is when the indicated figure stops flashing.

4. When the specified sensitivity of 5 dB cannot be obtained at the two frequency points, 76 MHz and 91.0 MHz (JPN), 88 MHz and 108.2 MHz (OTHERS), repeat the adjustment as described in Step 9.
5. When the sensitivity distortion factor still does not comply with the data specifications, adjust by turning the Front-End IF Coil core, but not more than 1/2 turn.
6. When connecting a Frequency Counter, connect from TP via a 100 kohms resistor.

2) AM (UC-K3L: MW) Section Adjustment (Refer to Figs. 5, 6, 9)

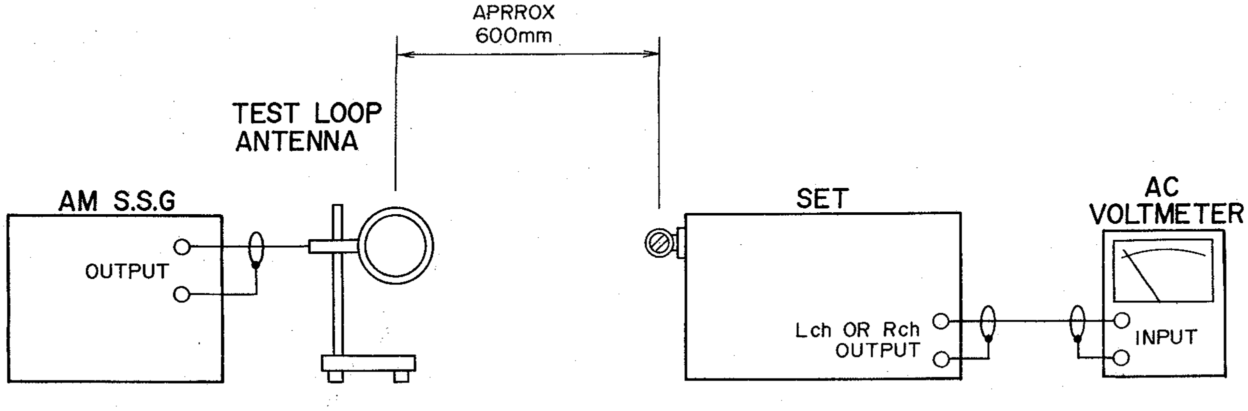


Fig. 9 Instrument Connections

Unless otherwise specified, use the adjustment points provided on the Tuner P.C Board (Fig. 6)

Step	Adjustment Item	Adjustment Point		Result	Remarks
		UC-K3	UC-K3L		
1	Digital LED Display Frequency	VR2 (10 kB) Counter PCB			Apply a 1,000 kHz, 50 dB input. Short TP1 to GND, and TP2 to GND on the Counter P.C Board. Adjust VR2 until 4th numeral display becomes stable position. (See Note 1)
2	AM IF Coil	T2 (BLK) T3 (BLK)	T2 (BLK) T3 (BLK) T4 (BLK)	Maximum Output	1,000 kHz, 50 dB, 400 Hz (30%) input.
3	Low Range Scale indication	T5 (RED)	T5 (RED)		Turn Tuning knob fully counterclockwise. Display 515 kHz by adjusting T5.
4	High Range Scale indication	VC2	VC2		Turn Tuning knob fully clockwise. Display 1,650 kHz by adjusting VC2.
5	Low Range Sensitivity	Bar Antenna Core	T6 Bar Antenna Core	Maximum Output Distortion Factor Less than 10%	600 kHz, 50 dB, 400 Hz (30%) input.
6	High Range Sensitivity	VC1	VC1 VC3	Maximum Output Distortion Factor Less than 10%	1,600 kHz, 50 dB, 400 Hz (30%) input.

3) LW Section Adjustment (UC-K3L Only: Refer to Figs. 6, 10)

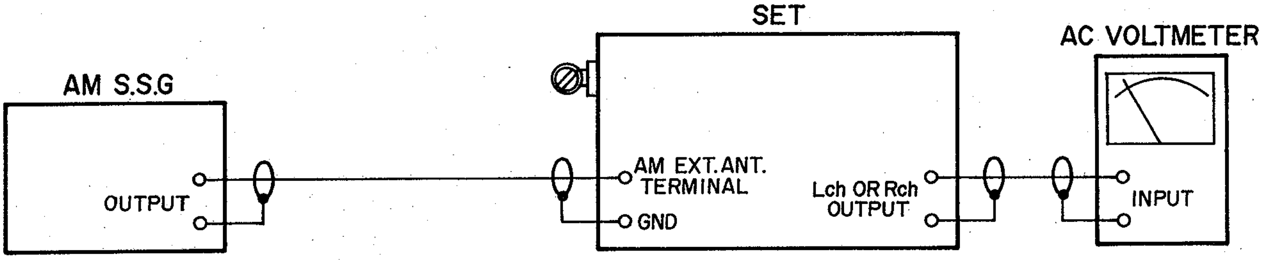
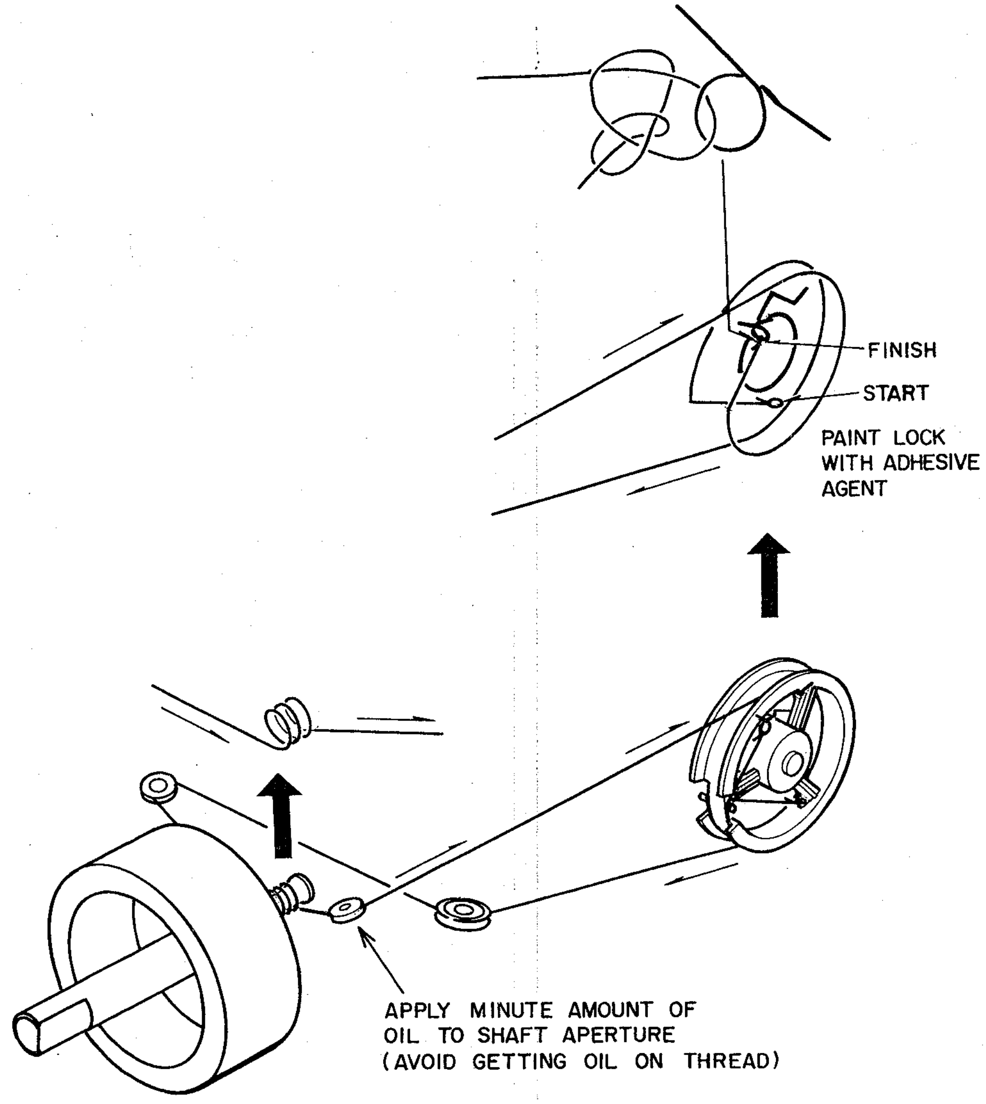

AM S.S.G
OUTPUT
SET
AM EXT.ANT. TERMINAL
GND
Lch OR Rch OUTPUT
AC VOLTMETER
INPUT

Fig. 10 Instrument Connections

Unless otherwise specified, use the adjustment points provided on the Tuner P.C Board (Fig. 6)

Step	Adjustment Item	Adjustment Point	Result	Remarks
1	High Range Scale indication	VC4		Turn tuning knob fully clockwise. Display 350 kHz by adjusting VC4.
2	Low Range Scale indication	T7		Turn tuning knob fully counterclockwise. Display 135 kHz by adjusting T7.
3	Low Range Sensitivity	T6	Maximum Output Distortion Factor Less than 10%	160 kHz, 50 dB, 400 Hz (30%) input.
4	High Range Sensitivity	VC1	Maximum Output Distortion Factor Less than 10%	300 kHz, 50 dB, 400 Hz (30%) input.

VII. TUNING CORD THREADING



PAINT LOCK WITH ADHESIVE AGENT

APPLY MINUTE AMOUNT OF OIL TO SHAFT APERTURE (AVOID GETTING OIL ON THREAD)

VIII. CLASSIFICATION OF VARIOUS P.C BOARDS

1. P.C BOARD TITLES AND IDENTIFICATION NUMBERS

1) Model UC-K3

P.C Board Title	P.C Board Number	Remarks
Tuner P.C Board	A3014A3170	U/T
	A3014A3190	CSA, AAL
	A3014A3200	CEE, SAA
Counter P.C Board	A3014A3171	U/T
	A3014A3191	CSA, AAL
	A3014A3201	CEE, SAA
LED P.C Board	A3014A3173	U/T
	A3014A3193	CSA, AAL
	A3014A3203	CEE, SAA
Mute P.C Board	A3014A3172	U/T
	A3014A3192	CSA, AAL
	A3014A3202	CEE, SAA

2) Model UC-K3J

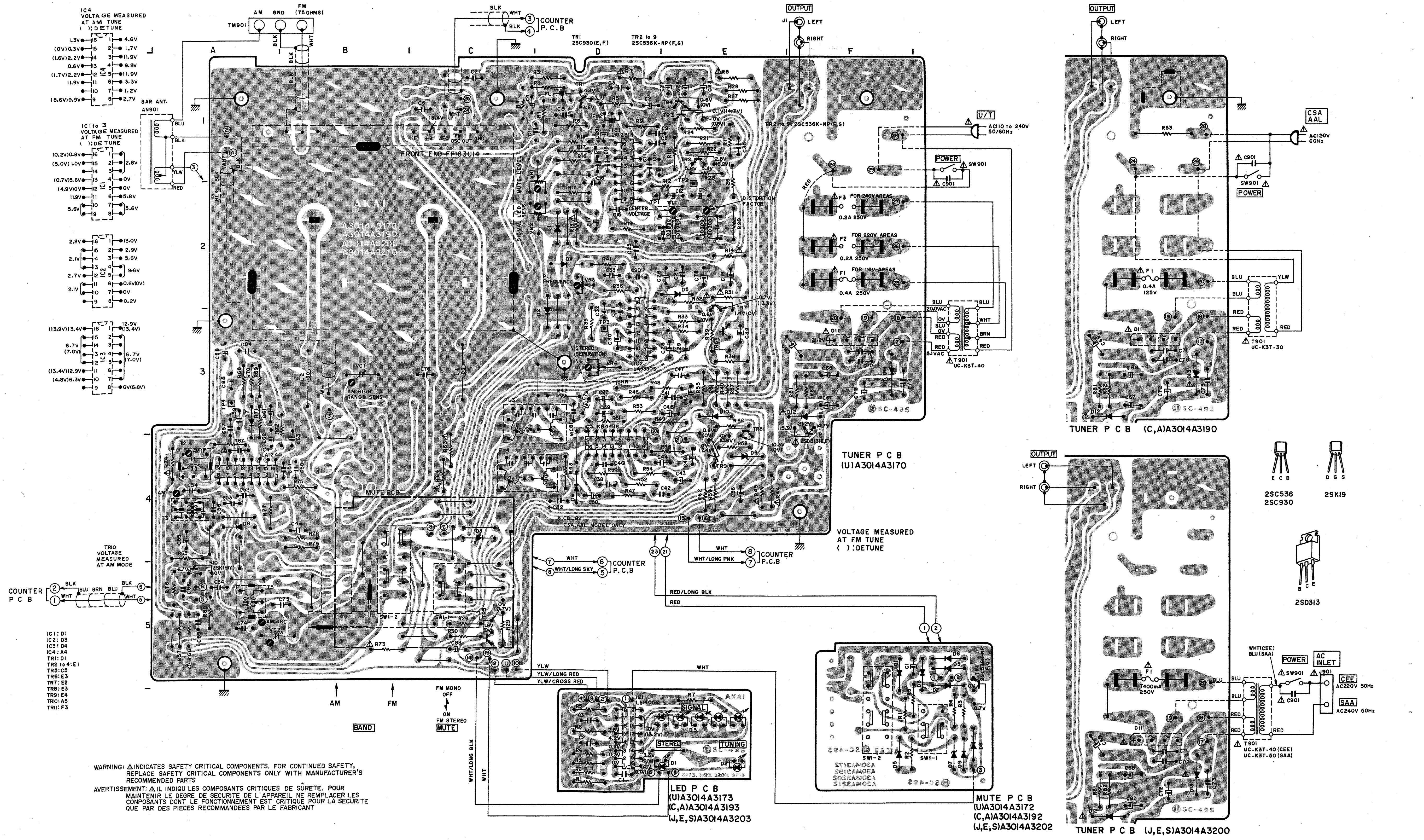
P.C Board Title	P.C Board Number
Tuner P.C Board	A3014A3200
Counter P.C Board	A3014A3201
LED P.C Board	A3014A3203
CAL Tone P.C Board	A3014D3180

3) Model UC-K3L

P.C Board Title	P.C Board Number
Tuner P.C Board	A3014A3210
Counter P.C Board	A3014A3211
LED P.C Board	A3014A3213
Mute P.C Board	A3014A3212

2. COMPOSITION OF VARIOUS P.C BOARDS

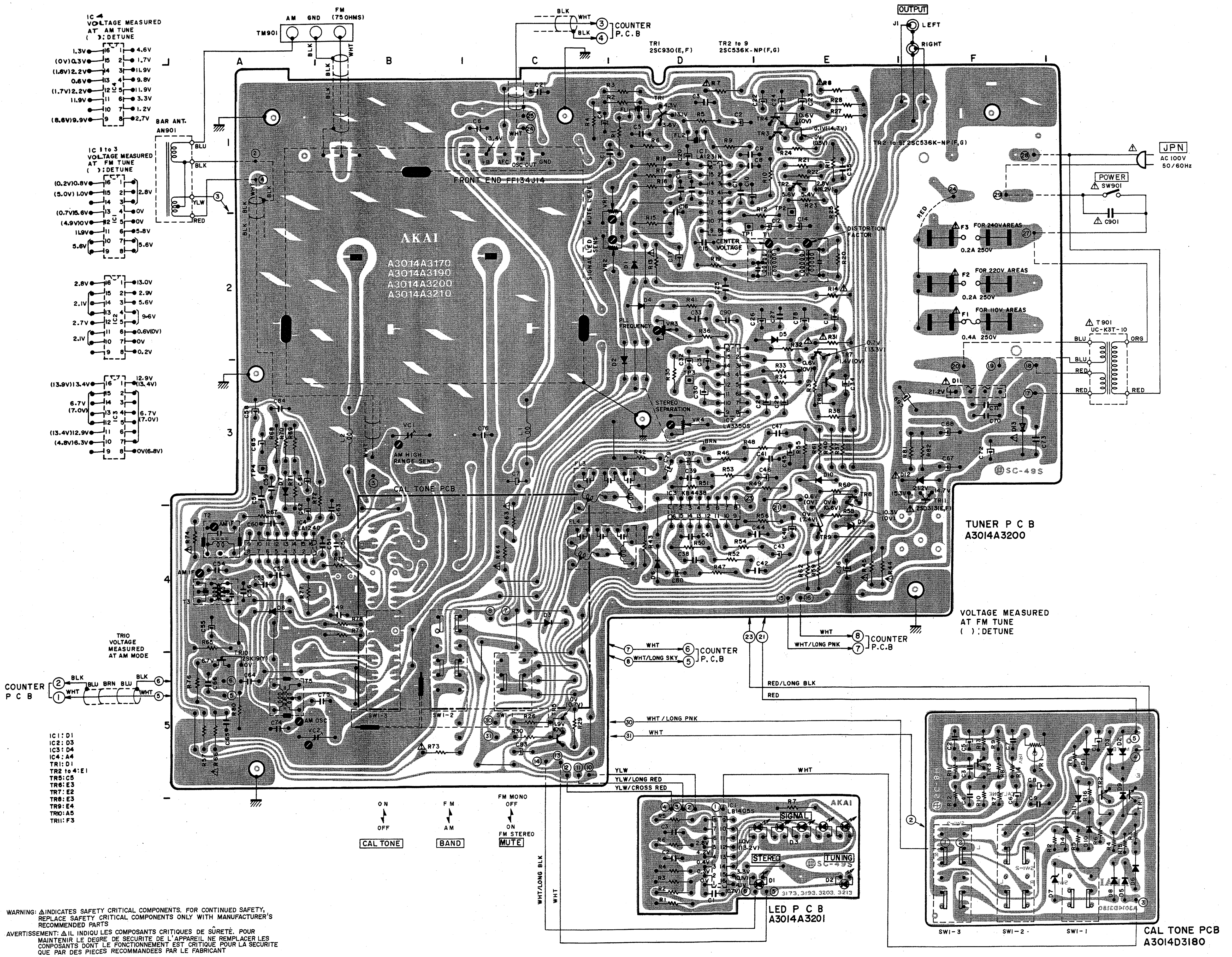
1) Model UC-K3 Tuner P.C Board A3014A3170 (U/T), A3014A3190 (CSA, AAL), A3014A3200 (CEE, SAA), LED P.C Board A3014A3173 (U/T), A3014A3193 (CSA, AAL), A3014A3203 (CEE, SAA) and Mute P.C Board A3014A3172 (U/T), A3014A3192 (CSA, AAL), A3014A3202 (CEE, SAA)


IC4 VOLTAGE MEASURED AT AM TUNE ( ): DETUNE
IC1 to 3 VOLTAGE MEASURED AT FM TUNE ( ): DETUNE
TM901
AM GND FM (75 OHMS)
BAR ANT. AN901
COUNTER P.C.B
TR1 2SC930(E,F)
TR2 to 9 2SC536K-NP(F,G)
OUTPUT
LEFT
RIGHT
U/T
AC110 to 240V 50/60Hz
POWER
SW901
C901
FOR 240V AREAS
FOR 220V AREAS
FOR 110V AREAS
0.2A 250V
0.4A 250V
T901 UC-K3T-40
FRONT END FF163U14
AKAI
A3014A3170
A3014A3190
A3014A3200
A3014A3210
MUTE LEVEL
SIGNAL LED SENS
PLL FREQUENCY
CENTER VOLTAGE
DISTORTION FACTOR
STEREO SEPARATION
AM HIGH RANGE SENS
AM OSC
MUTE PCB
TRIO VOLTAGE MEASURED AT AM MODE
IC1: D1
IC2: D3
IC3: D4
IC4: A4
TR1: D1
TR2 to 4: E1
TR5: C5
TR6: E3
TR7: E2
TR8: E3
TR9: E4
TR10: A5
TR11: F3
AM
FM
BAND
FM MONO OFF
ON FM STEREO
MUTE
TUNER P C B (U) A3014A3170
VOLTAGE MEASURED AT FM TUNE ( ): DETUNE
CSA, AAL MODEL ONLY
SC-495
LED P C B
(U) A3014A3173
(C,A) A3014A3193
(J,E,S) A3014A3203
SIGNAL
STEREO
TUNING
MUTE P C B
(U) A3014A3172
(C,A) A3014A3192
(J,E,S) A3014A3202
CSA AAL
AC120V 60Hz
T901 UC-K3T-30
TUNER P C B (C,A) A3014A3190
2SC536
2SC930
2SK19
2SD313
CEE AC220V 50Hz
SAA AC240V 50Hz
AC INLET
T400mA 250V
T901 UC-K3T-40 (CEE) UC-K3T-50 (SAA)
TUNER P C B (J,E,S) A3014A3200

WARNING: ⚠ INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

AVERTISSEMENT: ⚠ IL INDIQU LES COMPOSANTS CRITIQUES DE SÛRETE. POUR MAINTENIR LE DEGRE DE SECURITE DE L'APPAREIL NE REMPLACER LES CONPOSANTS DONT LE FONCTIONNEMENT EST CRITIQUE POUR LA SECURITE QUE PAR DES PIECES RECOMMANDEES PAR LE FABRICANT

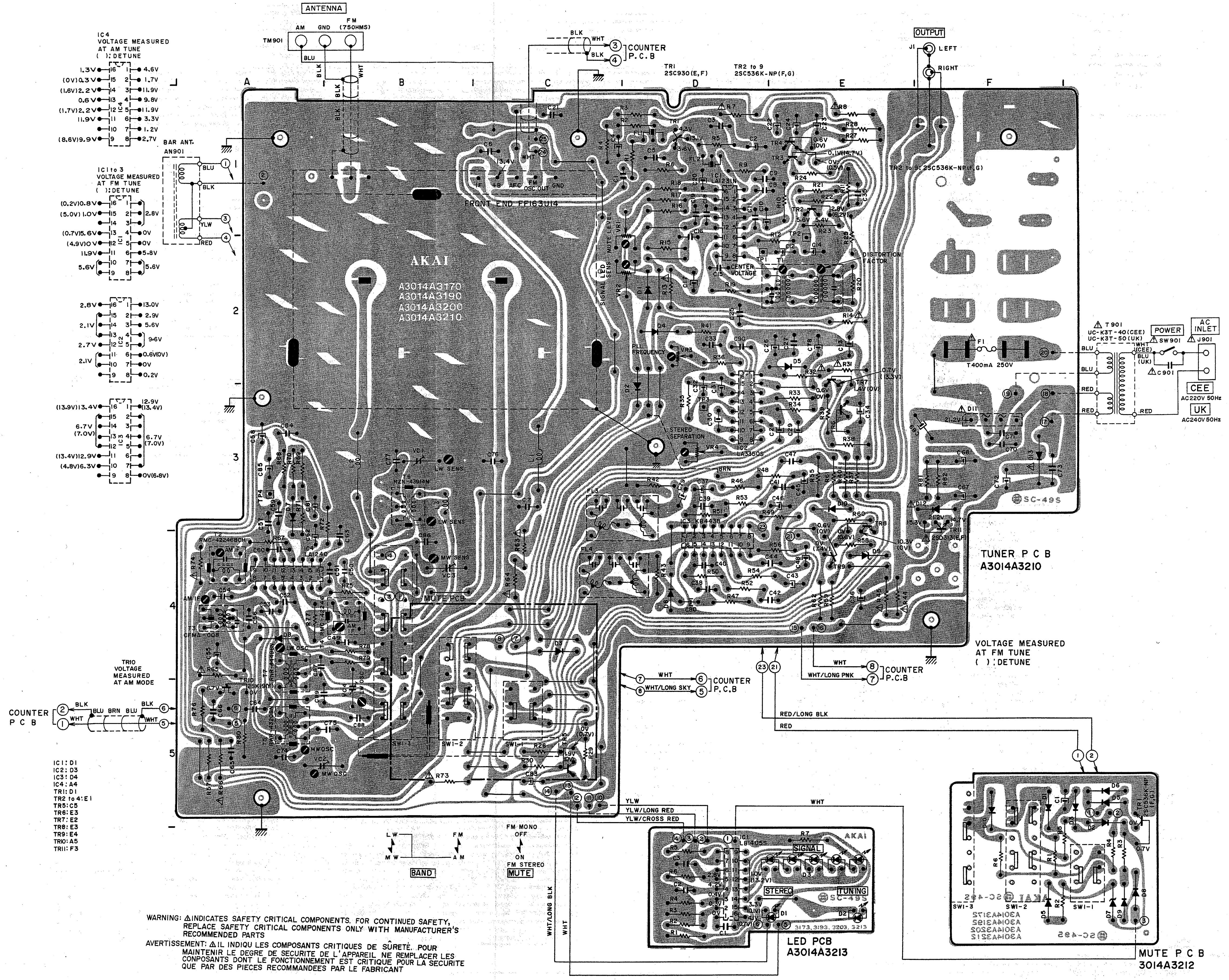
2) Model UC-K3J Tuner P.C Board A3014A3200, LED P.C Board A3014A3201 and CAL Tone P.C Board A3014D3180


IC 4 VOLTAGE MEASURED AT AM TUNE ( ): DETUNE
IC 1 to 3 VOLTAGE MEASURED AT FM TUNE ( ): DETUNE
TM901
AM GND FM (75 OHMS)
BAR ANT. AN901
COUNTER P.C.B
OUTPUT
J1 LEFT RIGHT
TR1 2SC930(E,F)
TR2 to 9 2SC536K-NP(F,G)
FRONT END FF134J14
AKAI
A3014A3170
A3014A3190
A3014A3200
A3014A3210
JPN AC 100V 50/60Hz
POWER SW901
C901
F3 FOR 240V AREAS 0.2A 250V
F2 FOR 220V AREAS 0.2A 250V
F1 FOR 110V AREAS 0.4A 250V
T901 UC-K3T-10
DISTORTION FACTOR
CENTER VOLTAGE
PLL FREQUENCY
STEREO SEPARATION
AM HIGH RANGE SENS
CAL TONE PCB
AM IF
AM OSC
TRIO VOLTAGE MEASURED AT AM MODE
TUNER P C B A3014A3200
VOLTAGE MEASURED AT FM TUNE ( ): DETUNE
IC1: D1
IC2: D3
IC3: D4
IC4: A4
TR1: D1
TR2 to 4: E1
TR5: C5
TR6: E3
TR7: E2
TR8: E3
TR9: E4
TR10: A5
TR11: F3
ON OFF CAL TONE
FM AM BAND
FM MONO OFF ON FM STEREO MUTE
SIGNAL
STEREO
TUNING
LED P C B A3014A3201
CAL TONE PCB A3014D3180
SW1-3 SW1-2 SW1-1

WARNING: ⚠INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

AVERTISSEMENT: ⚠IL INDIQU LES COMPOSANTS CRITIQUES DE SÛRETÉ. POUR MAINTENIR LE DEGRE DE SECURITE DE L'APPAREIL NE REMPLACER LES CONPOSANTS DONT LE FONCTIONNEMENT EST CRITIQUE POUR LA SECURITE QUE PAR DES PIECES RECOMMANDEES PAR LE FABRICANT

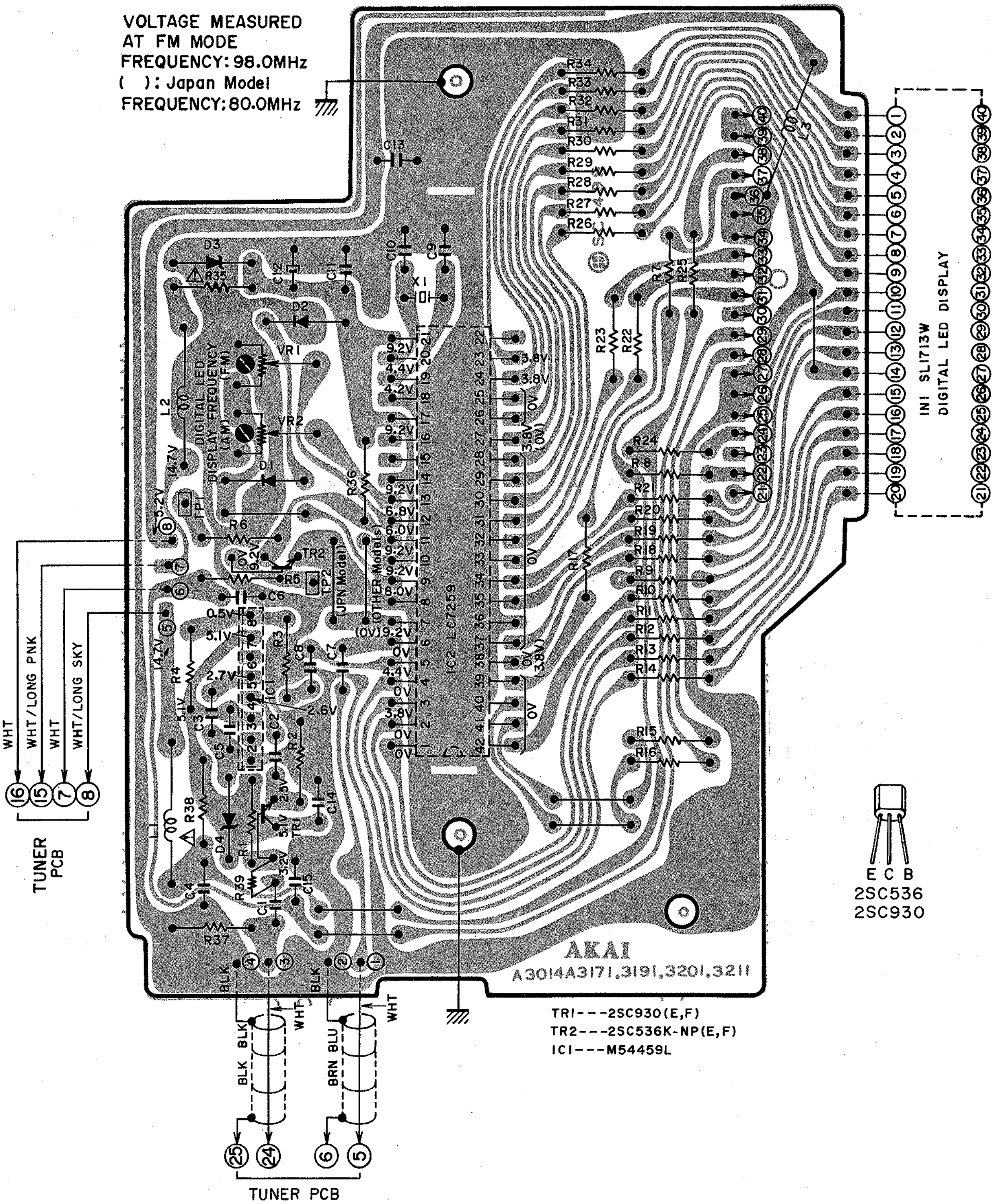
3) Model UC-K3L Tuner P.C Board A3014A3210, LED P.C Board A3014A3213 and Mute P.C Board A3014A3212


IC4
VOLTAGE MEASURED
AT AM TUNE
( ): DETUNE
1.3V 16 1 4.6V
(0V)0.3V 15 2 1.7V
(1.6V)2.2V 14 3 11.9V
0.6V 13 4 9.8V
(1.7V)2.2V 12 5 11.9V
11.9V 11 6 3.3V
10 7 1.2V
(8.6V)9.9V 9 8 2.7V
IC1 to 3
VOLTAGE MEASURED
AT FM TUNE
( ): DETUNE
(0.2V)0.8V 16 1 2.8V
(5.0V) 1.0V 15 2
14 3
(0.7V)5.6V 13 4 0V
(4.9V)0V 12 5 0V
11.9V 11 6 5.8V
5.6V 10 7 5.6V
9 8
IC1
2.8V 16 1 13.0V
2.1V 15 2 2.9V
14 3 5.6V
13 4 9.6V
2.7V 12 5
2.1V 11 6 0.6V(0V)
10 7 0V
9 8 0.2V
IC2
(13.9V)13.4V 16 1 12.9V (13.4V)
6.7V (7.0V) 15 2
14 3
13 4 6.7V (7.0V)
12 5
(13.4V)12.9V 11 6
(4.8V)6.3V 10 7
9 8 0V(6.8V)
IC3
BAR ANT.
AN901
BLU
BLK
YLW
RED
ANTENNA
AM GND FM (75OHMS)
TM901
BLU
BLK
WHT
A B C D E F
1 2 3 4 5
COUNTER P.C.B
BLK WHT
TR1 2SC930(E,F)
TR2 to 9 2SC536K-NP(F,G)
OUTPUT
J1 LEFT
RIGHT
FRONT END FF163U14
AKAI
A3014A3170
A3014A3190
A3014A3200
A3014A3210
SIGNAL LED
DISTORTION FACTOR
CENTER VOLTAGE
PLL FREQUENCY
STEREO SEPARATION
IC2 LA3350S
IC3 KB4438
IC1 LA1240
LW SENS
MW SENS
MUTE PCB
AM IF
MW OSC
LW OSC
TR10 2SK19(GR)
T2 RMC-42246BCH
T3 CFMA-OG8
SW1-1 SW1-2 SW1-3
TR2 to 9 2SC536K-NP(F,G)
TR11 2SD313(E,F)
F1 T400mA 250V
⚠ T901
UC-K3T-40(CEE)
UC-K3T-50(UK)
POWER
⚠ SW901
AC INLET
⚠ J901
⚠ C901
WHT (CEE)
BLU (UK)
BLU
BLU
RED
RED
RED
CEE
AC220V 50Hz
UK
AC240V 50Hz
ⓈSC-49S
TUNER P C B
A3014A3210
VOLTAGE MEASURED
AT FM TUNE
( ): DETUNE
WHT
WHT/LONG PNK
COUNTER P.C.B
WHT
WHT/LONG SKY
COUNTER P.C.B
RED/LONG BLK
RED
TRIO
VOLTAGE
MEASURED
AT AM MODE
COUNTER P C B
BLK
WHT
BLU BRN BLU
BLK
WHT
IC1: D1
IC2: D3
IC3: D4
IC4: A4
TR1: D1
TR2 to 4: E1
TR5: C5
TR6: E3
TR7: E2
TR8: E3
TR9: E4
TR10: A5
TR11: F3
LW FM
MW AM
BAND
FM MONO
OFF
ON
FM STEREO
MUTE
YLW
YLW/LONG RED
YLW/CROSS RED
WHT/LONG BLK
WHT
WHT
IC1 LB1405S
AKAI
SIGNAL
STEREO
TUNING
LED PCB
A3014A3213
3173, 3193, 3203, 3213
MUTE P C B
3014A3212

WARNING: ⚠INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

AVERTISSEMENT: ⚠IL INDIQU LES COMPOSANTS CRITIQUES DE SÛRETÉ. POUR MAINTENIR LE DEGRE DE SECURITE DE L'APPAREIL NE REMPLACER LES CONPOSANTS DONT LE FONCTIONNEMENT EST CRITIQUE POUR LA SECURITE QUE PAR DES PIECES RECOMMANDEES PAR LE FABRICANT

4) Counter P.C Board A3014A3171 (U/T), A3014A3191 (CSA, AAL), A3014A3201 (CEE, SAA, JPN), A3014A3211 (UC-K3L)



VOLTAGE MEASURED
AT FM MODE
FREQUENCY: 98.0MHz
( ): Japan Model
FREQUENCY: 80.0MHz

R34
R33
R32
R31
R30
R29
R28
R27
R26
C13
C10
C9
C12
C11
X1
D3
R35
D2
D1
D4
VR1
VR2
DIGITAL LED DISPLAY FREQUENCY (FM) (AM)
L2
L3
L1
14.7V
5.2V
TP1
TP2
R6
R5
R36
TR2
TR1
R7
R25
R23
R22
R24
R8
R2
R20
R19
R18
R9
R10
R11
R12
R13
R14
R15
R16
R17
9.2V
4.4V
4.2V
6.8V
6.0V
8.0V
3.8V
0V
(3.8V)
(0V)
JPN Model
OTHER Models
IC2 LC7259
IC1
C6
C8
C7
C3
C2
C5
C14
C4
C15
C1
R3
R4
R2
R1
R38
R39
R37
0.5V
5.1V
2.7V
2.6V
2.5V
3.2V
WHT
WHT/LONG PNK
WHT
WHT/LONG SKY
⑯ ⑮ ⑦ ⑧
TUNER PCB
BLK
WHT
BLK BLK
BRN BLU
㉕ ㉔ ⑥ ⑤
TUNER PCB
IN1 SL1713W
DIGITAL LED DISPLAY
AKAI
A3014A3171,3191,3201,3211
E C B
2SC536
2SC930

TR1---2SC930(E,F)
TR2---2SC536K-NP(E,F)
IC1---M54459L

SECTION 2

SERVICE MANUAL

MODEL UC-U3E

TABLE OF CONTENTS

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  1. P.C BOARD TITLES AND IDENTIFICATION NUMBERS 26
  2. COMPOSITION OF VARIOUS P.C BOARDS 27

For basic adjustments, measuring methods, and operating principles, refer to GENERAL TECHNICAL MANUAL.

I. SPECIFICATIONS

POWER AMPLIFIER SECTION

RATED POWER OUTPUT (2 Channels Driven) 1,000 Hz	15W/0.5% at 8 ohms
POWER BANDWIDTH (IHF –3 dB, 8 ohms)	10 Hz to 35 kHz/0.5%
SIGNAL TO NOISE RATIO (IHF–A) PHONO AUX	 75 dB 95 dB
RESIDUAL NOISE (8 ohms)	0.7 mV
CHANNEL SEPARATION (IHF, 1 kHz)	50 dB (Phono) 55 dB (Aux)
DAMPING FACTOR (1 kHz, 8 ohms)	30
OUTPUT SPEAKERS HEADPHONES	 4 to 16 ohms 4 to 16 ohms

PREAMPLIFIER SECTION

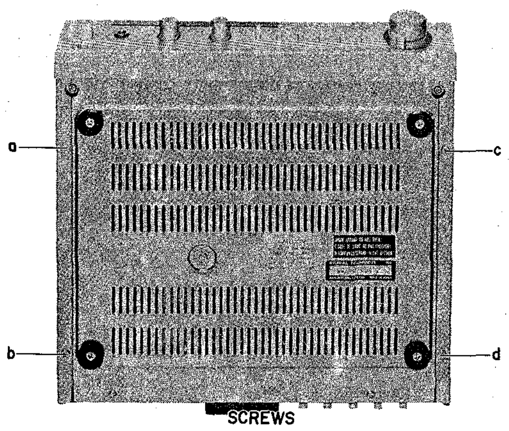
INPUT SENSITIVITY/IMPEDANCE PHONO MM AUX TUNER TAPE	 3 mV/47 kohms 150 mV/47 kohms 150 mV/47 kohms 150 mV/47 kohms
OUTPUT LEVEL/IMPEDANCE TAPE REC	150 mV/5 kohms
FREQUENCY RESPONSE PHONO (RIAA DEVIATION) TUNER, AUX, TAPE	 ± 1 dB (30 to 15 kHz) 10 Hz to 50 kHz ± 1 dB
TONE CONTROL BASS TREBLE	 ± 10 dB (100 Hz) ± 10 dB (10 kHz)
LOUDNESS CONTROL (Volume set at –30 dB position)	+ 8 dB (100 Hz) + 6 dB (10 kHz)
PHONO MAX INPUT LEVEL (1 kHz) MM	120 mV
POWER REQUIREMENTS	120V, 60 Hz for Canada 220V, 50 Hz for Europe except UK 240V, 50 Hz for UK and Australia 110-120V, 220-240V, 50/60 Hz internally switchable for other countries.
DIMENSIONS	280 (W) x 56 (H) x 270 (D) mm (11.0 x 2.2 x 10.6 inches)
WEIGHT	4 kg (8.8 lbs)

* For improvement purposes, specifications and design are subject to change without notice.

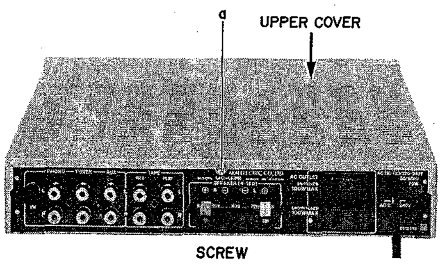
II. DISMANTLING OF UNIT

In case of trouble, etc. necessitating dismantling, please dismantle in the order shown in the photographs. Reassemble in reverse order.

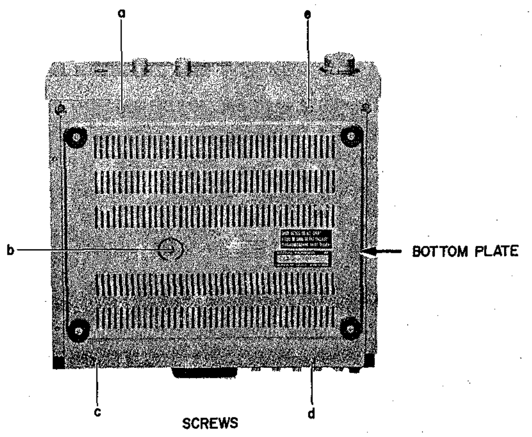
1


a
c
b
d
SCREWS

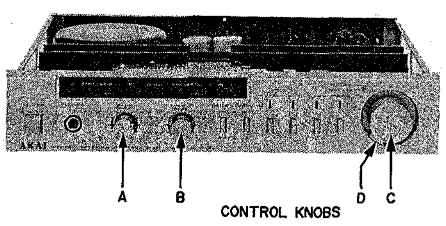
2


a
UPPER COVER
SCREW

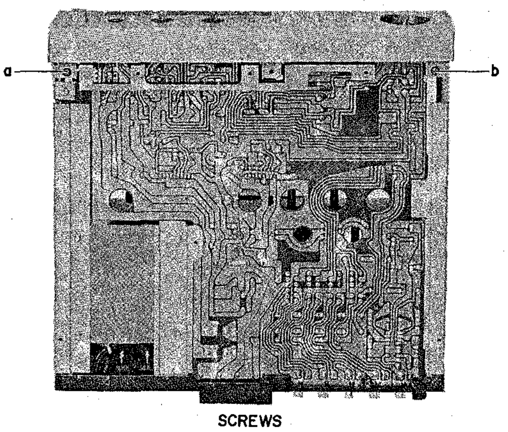
3


a
e
b
BOTTOM PLATE
c
d
SCREWS

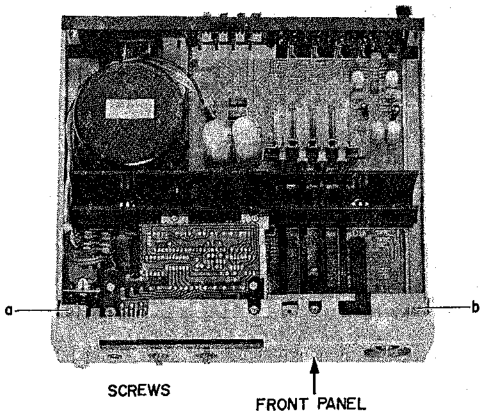
4


A
B
D
C
CONTROL KNOBS

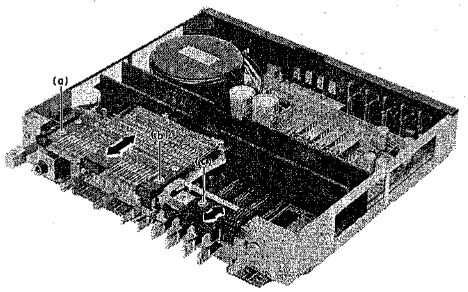
5



6


a
b
SCREWS
FRONT PANEL

7



1. Loosen screws (a), (b) and (c) and slide the LED to the back.
2. Attach the front panel.
3. Slide the LED forward so that it fits the holes in the front panel. Retighten the screws (a), (b) and (c).

III. CONTROLS

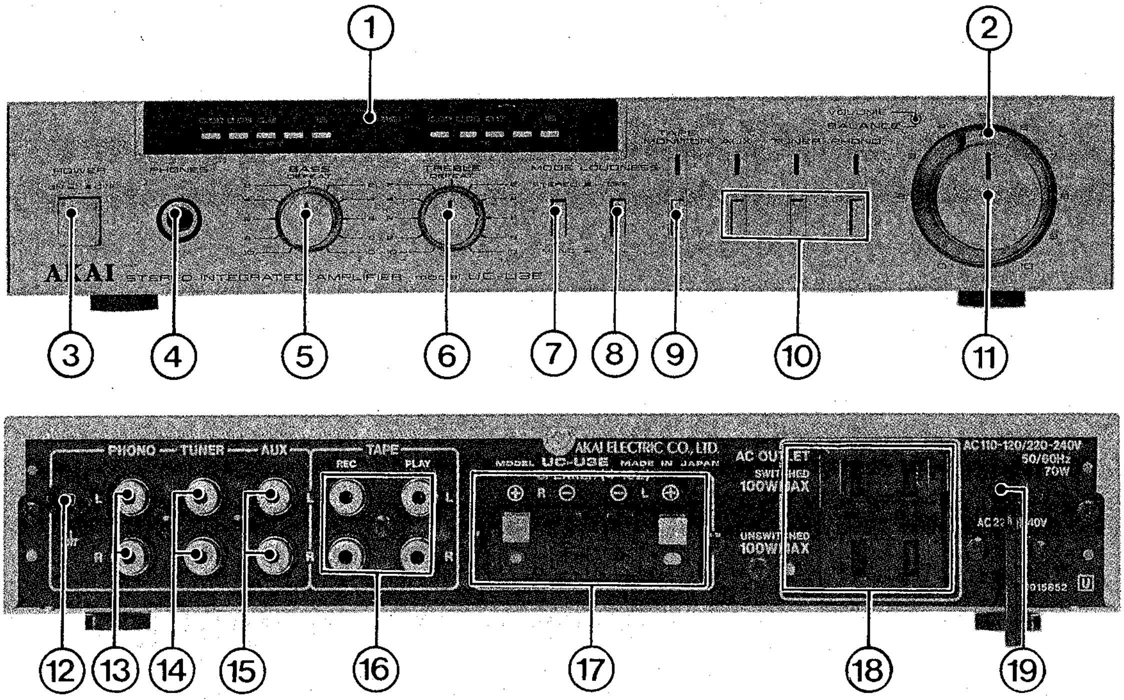

①
②
POWER
PHONES
BASS
TREBLE
MODE LOUDNESS
TAPE MONITOR
AUX
TUNER
PHONO
VOLUME
BALANCE
AKAI STEREO INTEGRATED AMPLIFIER model UC-U3E
③
④
⑤
⑥
⑦
⑧
⑨
⑩
⑪
PHONO
TUNER
AUX
TAPE
REC
PLAY
L
R
AKAI ELECTRIC CO., LTD.
MODEL UC-U3E MADE IN JAPAN
AC OUTLET
SWITCHED
100W MAX
UNSWITCHED
100W MAX
AC 110-120/220-240V
50/60Hz
70W
⑫
⑬
⑭
⑮
⑯
⑰
⑱
⑲

Fig. 1 Controls

1. LEFT AND RIGHT LED BAR METERS
2. STEREO BALANCE CONTROL
3. POWER SWTICH
4. HEADPHONE JACK (PHONES)
5. BASS CONTROL
6. TREBLE CONTROL
7. MODE SELECTOR
8. LOUDNESS SWITCH
9. TAPE MONITOR SWITCH AND INDICATOR
10. INPUT SWITCHES AND INDICATORS
11. VOLUME CONTROL
12. GROUND TERMINAL
13. PHONO JACKS
14. TUNER JACKS
15. AUX JACKS
16. TAPE JACKS
17. SPEAKER TERMINALS
18. AC OUTLETS (Some models are not equipped with this facility.)
19. AC CORD

IV. PRINCIPAL PARTS LOCATION

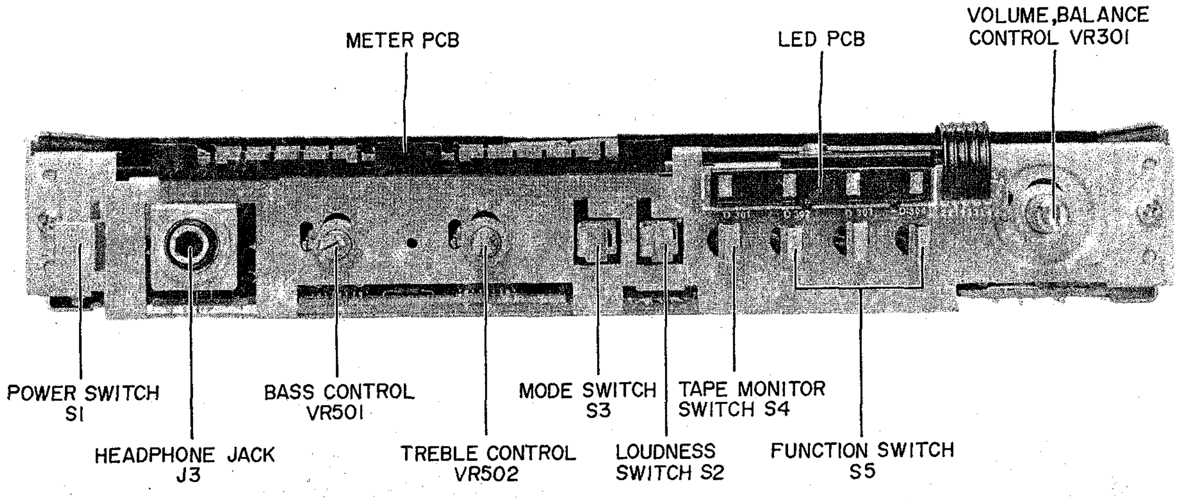

METER PCB
LED PCB
VOLUME,BALANCE CONTROL VR301
POWER SWITCH S1
HEADPHONE JACK J3
BASS CONTROL VR501
TREBLE CONTROL VR502
MODE SWITCH S3
LOUDNESS SWITCH S2
TAPE MONITOR SWITCH S4
FUNCTION SWITCH S5

Fig. 2 Front View

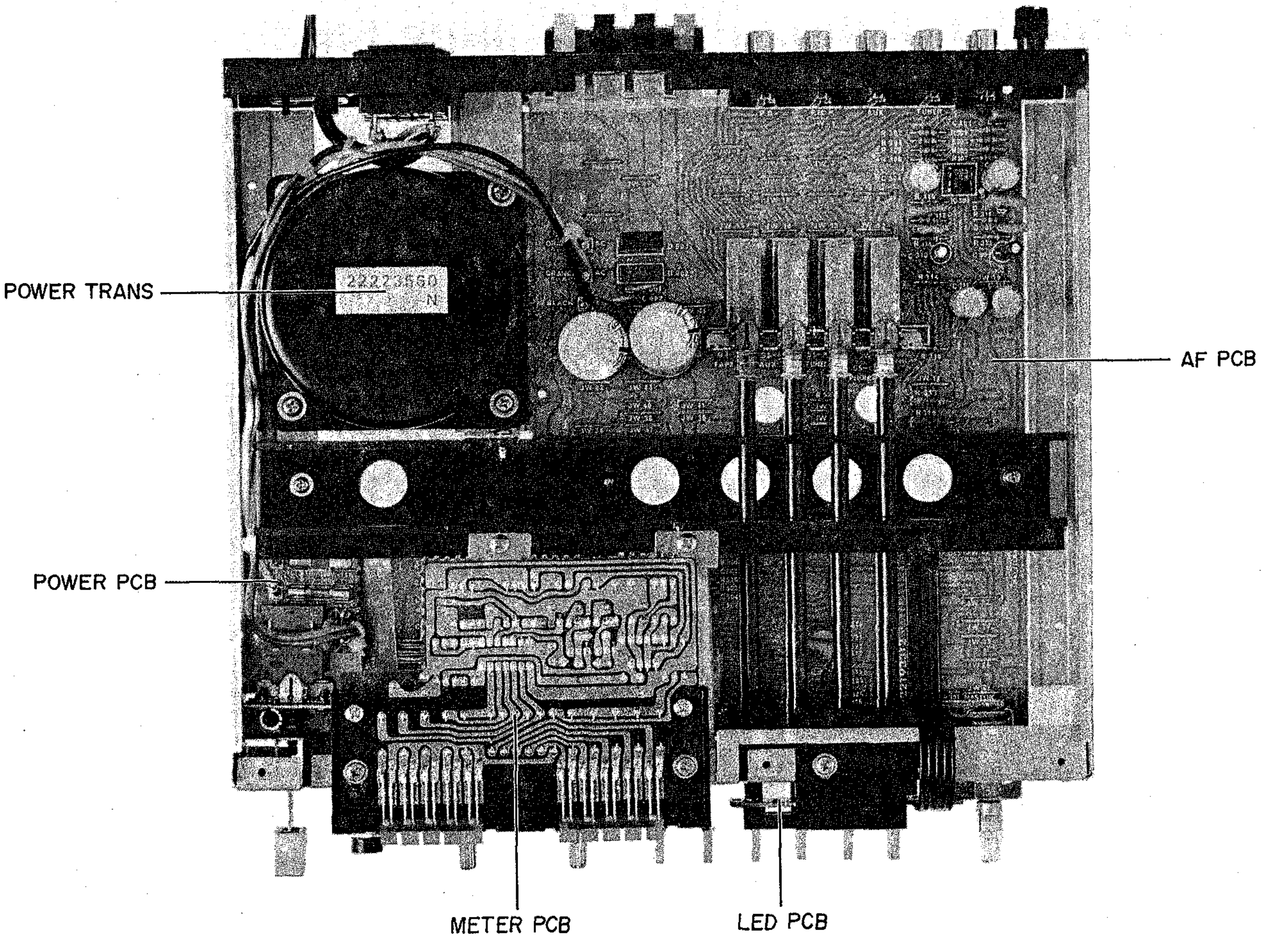

POWER TRANS
AF PCB
POWER PCB
METER PCB
LED PCB

Fig. 3 Top View

V. VOLTAGE CONVERSION

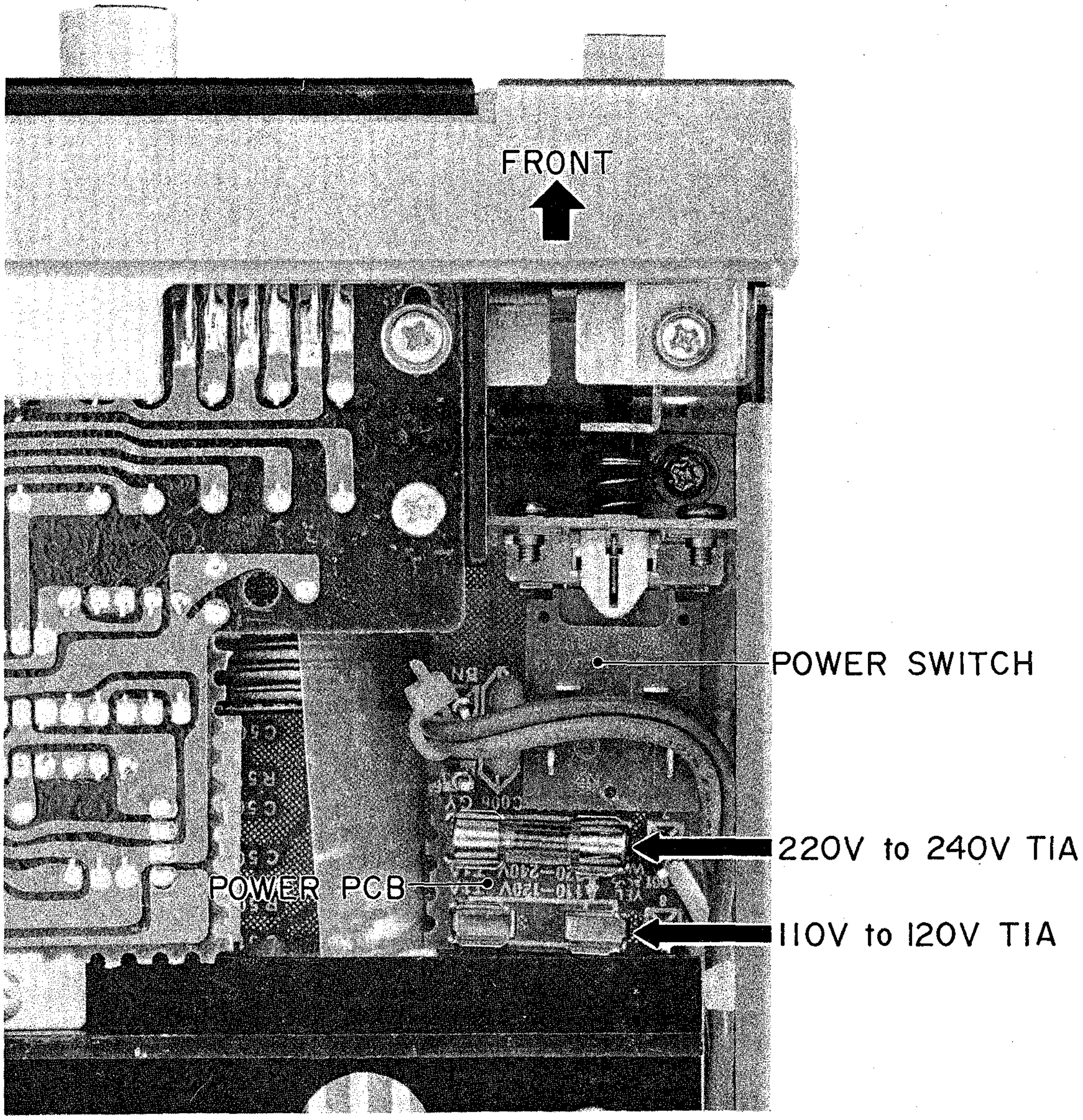


Fig. 4 Voltage Conversion (U/T Model Only)

Models for Canada, Europe, UK and Australia are not equipped with this facility.
Each machine is preset at the factory according to destination but some machines can be set to 110V, 220V or 240V as required.
If voltage change is necessary, this can be accomplished as follows:

1) Disconnect the power cord.
2) Loosen the holding screws and remove the Upper Cover.
3) Remove the existing Line Voltage Fuse on the Power P.C Board and insert the required Line Voltage Fuse into the proper fuse holder. Follow markings explicitly.

VI. CLASSIFICATION OF VARIOUS P.C BOARDS

1. P.C BOARD TITLES AND IDENTIFICATION NUMBERS

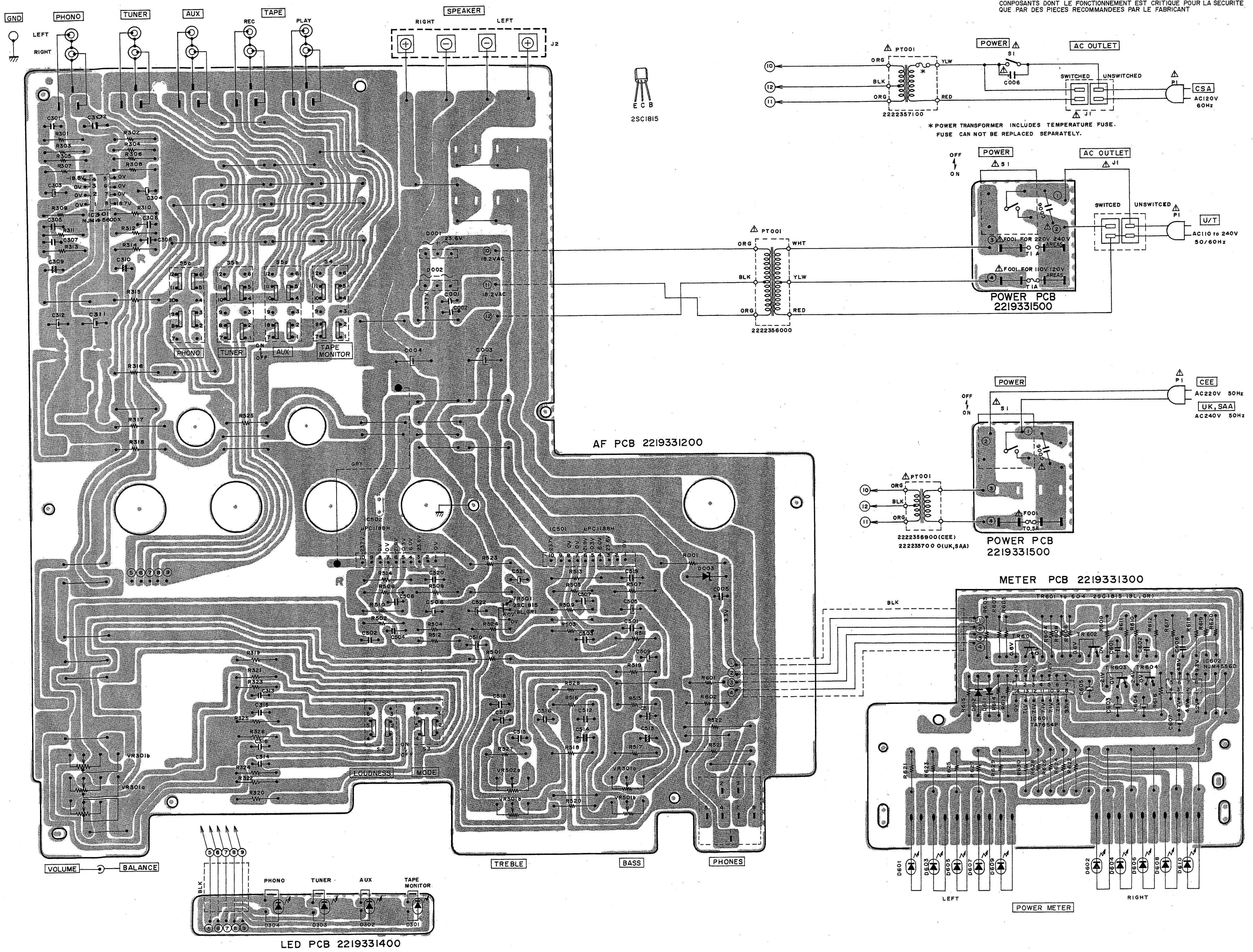
P.C Board Title	P.C Board Number
AF P.C Board	2219331200
Meter P.C Board	2219331300
LED P.C Board	2219331400
Power P.C Board	2219331500

2. COMPOSITION OF VARIOUS P.C BOARDS

AF P.C Board 2219331200, Meter P.C Board 2219331300, LED P.C Board 2219331400 and Power P.C Board 2219331500

WARNING: ⚠INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

AVERTISSEMENT: ⚠IL INDIQU LES COMPOSANTS CRITIQUES DE SÛRETÉ. POUR MAINTENIR LE DEGRE DE SECURITE DE L'APPAREIL NE REMPLACER LES CONPOSANTS DONT LE FONCTIONNEMENT EST CRITIQUE POUR LA SECURITE QUE PAR DES PIECES RECOMMANDEES PAR LE FABRICANT


GND
PHONO
TUNER
AUX
TAPE
REC
PLAY
LEFT
RIGHT
SPEAKER
RIGHT
LEFT
J2
E C B
2SC1815
AF PCB 2219331200
PHONO
TUNER
AUX
TAPE MONITOR
ON
OFF
IC301 NJM4560DX
IC501 µPC1188H
IC502 µPC1188H
TR501 2SC1815 (BL,GR)
LOUDNESS
MODE
VOLUME
BALANCE
TREBLE
BASS
PHONES
⚠ PT001
ORG
BLK
ORG
YLW
RED
2222357100
POWER ⚠
S1
C006
AC OUTLET
SWITCHED
UNSWITCHED
⚠ J1
⚠ P1
CSA
AC120V 60Hz
* POWER TRANSFORMER INCLUDES TEMPERATURE FUSE.
FUSE CAN NOT BE REPLACED SEPARATELY.
OFF
ON
POWER
⚠ S1
AC OUTLET
⚠ J1
SWITCED
UNSWITCED
⚠ P1
U/T
AC110 to 240V 50/60Hz
⚠ F001 FOR 220V 240V AREAS T1A
⚠ F001 FOR 110V 120V AREAS T1A
POWER PCB 2219331500
⚠ PT001
ORG
WHT
BLK
YLW
ORG
RED
2222356000
POWER
⚠ P1
CEE
AC220V 50Hz
UK, SAA
AC240V 50Hz
⚠ F001 T0.5A
2222356900(CEE)
2222357000(UK,SAA)
POWER PCB 2219331500
METER PCB 2219331300
BLK
TR601 to 604 2SC1815 (BL,GR)
IC601 TA7654P
IC602 NJM4556D
D601
D603
D605
D607
D609
D602
D604
D606
D608
D610
LEFT
RIGHT
POWER METER
PHONO
TUNER
AUX
TAPE MONITOR
BLK
D304
D303
D302
D301
LED PCB 2219331400

SECTION 3

SERVICE MANUAL

MODEL UC-U3, UC-U4

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For basic adjustments, measuring methods, and operating principles, refer to GENERAL TECHNICAL MANUAL.

I . SPECIFICATIONS

1. MODEL UC-U3

RATED POWER OUTPUT (2 Channels Driven) 20 Hz to 20,000 Hz	33W/0.05% at 8 ohms
POWER BANDWIDTH (IHF –3 dB, 8 ohms)	5 Hz to 70 kHz/0.1%
RESIDUAL NOISE (IHF-A 8 ohms)	180 μV
DAMPING FACTOR (1 kHz, 8 ohms)	50
FREQUENCY RESPONSE	
PHONO (RIAA DEVIATION)	±0.5 dB (20 Hz to 20 kHz)
TUNER, AUX, TAPE	6 Hz to 100 kHz +0 dB, –3 dB
PHONO MAXIMUM INPUT LEVEL (1 kHz)	200 mV
INPUT SENSITIVITY/IMPEDANCE	
PHONO	3 mV/47 kohms
TUNER	150 mV/100 kohms
AUX	150 mV/100 kohms
TAPE	150 mV/100 kohms
OUTPUT LEVEL/IMPEDANCE	
TAPE (REC)	150 mV
PRE OUT	1 V/600 ohms
SIGNAL TO NOISE RATIO (IHF-A)	
PHONO	80 dB
TUNER, AUX, TAPE	100 dB
CHANNEL SEPARATION (1 kHz)	55 dB
TONE CONTROL	
BASS	± 8 dB (100 Hz)
TREBLE	± 8 dB (10 kHz)
LOUDNESS CONTROL (Volume set at –30 dB position)	+ 10 dB (100 Hz) + 6 dB (10 kHz)
MUTING	–20 dB
POWER REQUIREMENTS	100V, 50/60 Hz for Japan 120V, 60 Hz for USA 110V/220V/240V, 50/60 Hz internally switchable for other countries.
POWER CONSUMPTION	73W (JPN), 120W (U/T, AAL)
DIMENSIONS	280 (W) x 109 (H) x 280 (D) mm (11.0 x 4.3 x 11.0 inches)
WEIGHT	7.72 kg (17.0 lbs)

* For improvement purposes, specifications and design are subject to change without notice.

2. MODEL UC-U4

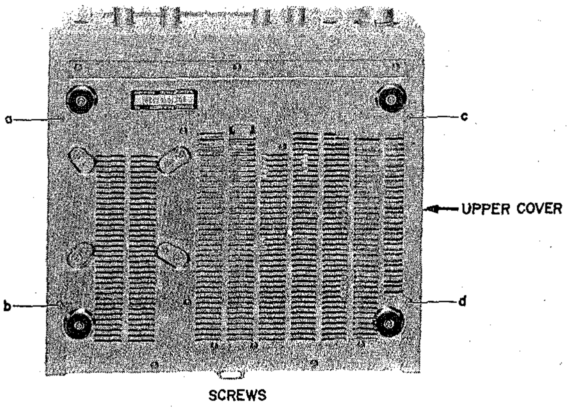
RATED POWER OUTPUT (2 Channels Driven) 20 Hz to 20,000 Hz	48W/0.05% at 8 ohms
POWER BANDWIDTH (IHF –3 dB, 8 ohms)	5 Hz to 70 kHz/0.1%
RESIDUAL NOISE (IHF-A 8 ohms)	180 μV
DAMPING FACTOR (1 kHz, 8 ohms)	50
FREQUENCY RESPONSE	
PHONO (RIAA DEVIATION)	±0.5 dB (20 Hz to 20 kHz)
TUNER, AUX, TAPE	6 Hz to 100 kHz +0 dB, –3 dB
PHONO MAXIMUM INPUT LEVEL (1 kHz)	8 mV (MC), 200 mV (MM)
INPUT SENSITIVITY/IMPEDANCE	
PHONO (MC)	120 μV/100 ohms
PHONO (MM)	3 mV/47 kohms
TUNER	150 mV/100 kohms
AUX	150 mV/100 kohms
TAPE	150 mV/100 kohms
OUTPUT LEVEL/IMPEDANCE	
TAPE (REC)	150 mV
PRE OUT	1 V/600 ohms
SIGNAL TO NOISE RATIO (IHF-A)	
PHONO (MC)	70 dB
PHONO (MM)	80 dB
TUNER, AUX, TAPE	100 dB
CHANNEL SEPARATION (1 kHz)	55 dB
TONE CONTROL	
BASS	± 8 dB (100 Hz)
TREBLE	± 8 dB (10 kHz)
LOUDNESS CONTROL (Volume set at –30 dB position)	+ 10 dB (100 Hz) + 6 dB (10 kHz)
MUTING	–20 dB
POWER REQUIREMENT	100V, 50/60 Hz for Japan 120V, 60 Hz for USA
POWER CONSUMPTION	113W (JPN), 200W (AAL)
DIMENSIONS	280 (W) x 109 (H) x 280 (D) mm (11.0 x 4.3 x 11.0 inches)
WEIGHT	7.72 kg (17.0 lbs)

* For improvement purposes, specifications and design are subject to change without notice.

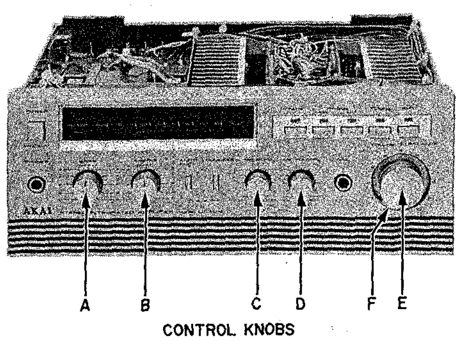
II. DISMANTLING OF UNIT

In case of trouble, etc. necessitating dismantling, please dismantle in the order shown in the photographs. Reassemble in reverse order.

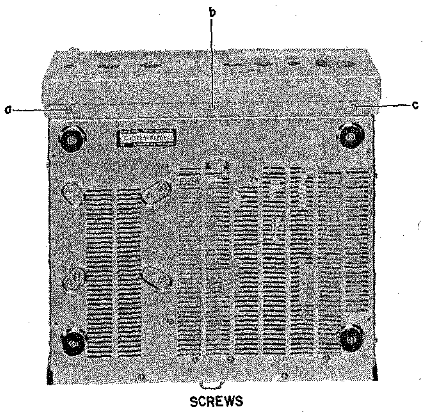
1


a
b
c
d
UPPER COVER
SCREWS

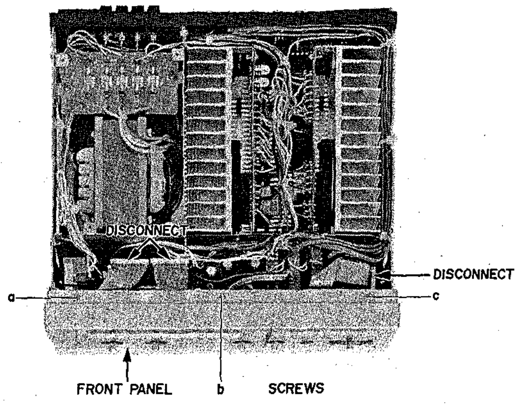
2


A
B
C
D
F
E
CONTROL KNOBS

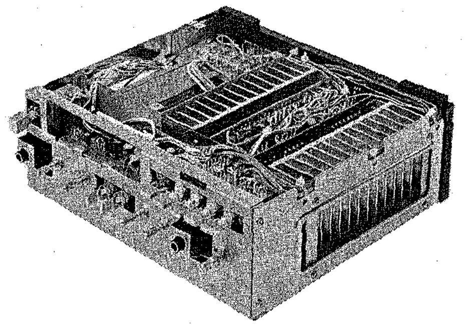
3



4


DISCONNECT
DISCONNECT
a
c
FRONT PANEL
b
SCREWS

5



III. CONTROLS

1. MODEL UC-U3

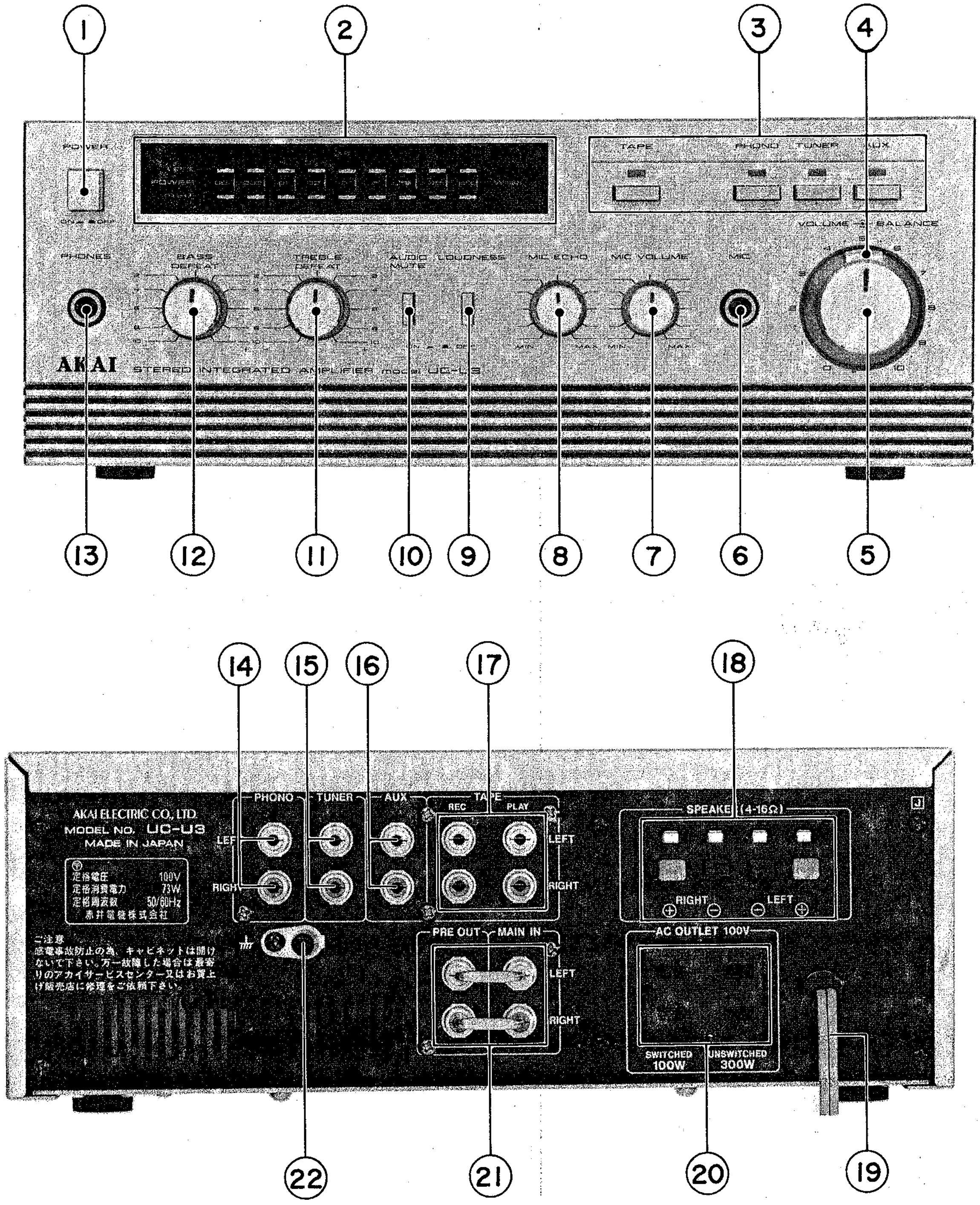

1
2
3
4
POWER
ON OFF
TAPE
PHONO
TUNER
AUX
VOLUME
BALANCE
PHONES
BASS
DEFEAT
TREBLE
DEFEAT
AUDIO MUTE
LOUDNESS
MIC ECHO
MIC VOLUME
MIC
MIN
MAX
AKAI
STEREO INTEGRATED AMPLIFIER model UC-U3
13
12
11
10
9
8
7
6
5
14
15
16
17
18
AKAI ELECTRIC CO., LTD.
MODEL NO. UC-U3
MADE IN JAPAN
PHONO
TUNER
AUX
TAPE
REC
PLAY
LEFT
RIGHT
SPEAKERS (4-16Ω)
RIGHT
LEFT
PRE OUT
MAIN IN
AC OUTLET 100V
SWITCHED 100W
UNSWITCHED 300W
22
21
20
19

Fig. 1 Controls (UC-U3)

1. POWER SWITCH
2. LED BAR METER
3. INPUT SELECTOR BUTTONS AND INDICATORS
4. STEREO BALANCE CONTROL
5. VOLUME CONTROL
6. MICROPHONE (MIC) JACK
7. MICROPHONE (MIC) VOLUME CONTROL
8. MICROPHONE (MIC) ECHO CONTROL
9. LOUDNESS SWITCH
10. AUDIO MUTE SWITCH
11. TREBLE CONTROL
12. BASS CONTROL
13. HEADPHONE JACK (PHONES)
14. PHONO JACKS
15. TUNER JACKS
16. AUX JACKS
17. TAPE SYSTEM RECORDING (REC)/PLAY JACKS
18. SPEAKER TERMINALS
19. AC CORD
20. AC OUTLETS
21. PRE OUT AND MAIN IN JACKS
22. GROUND TERMINALS

2. MODEL UC-U4

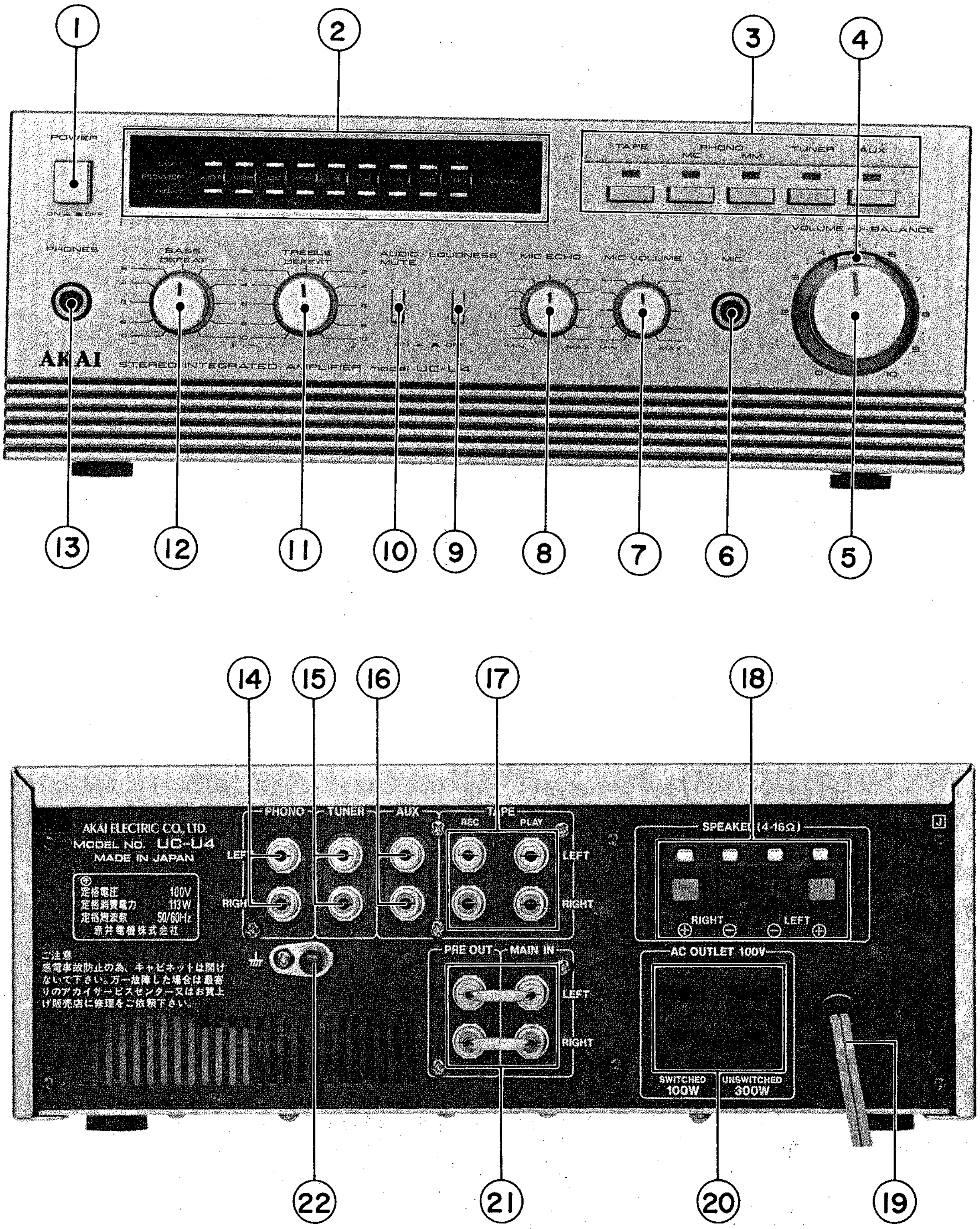

1
2
3
4
POWER
TAPE
PHONO
MC
MM
TUNER
AUX
VOLUME
BALANCE
PHONES
BASS
TREBLE
AUDIO MUTE
LOUDNESS
MIC ECHO
MIC VOLUME
MIC
AKAI
STEREO INTEGRATED AMPLIFIER model UC-U4
13
12
11
10
9
8
7
6
5
14
15
16
17
18
AKAI ELECTRIC CO., LTD.
MODEL NO. UC-U4
MADE IN JAPAN
PHONO
TUNER
AUX
TAPE
REC
PLAY
LEFT
RIGHT
SPEAKER (4-16Ω)
RIGHT
LEFT
PRE OUT
MAIN IN
AC OUTLET 100V
SWITCHED 100W
UNSWITCHED 300W
22
21
20
19

Fig. 2 Controls (UC-U4)

1. POWER SWITCH
2. LED BAR METER
3. INPUT SELECTOR BUTTONS AND INDICATORS
4. STEREO BALANCE CONTROL
5. VOLUME CONTROL
6. MICROPHONE (MIC) JACK
7. MICROPHONE (MIC) VOLUME CONTROL
8. MICROPHONE (MIC) ECHO CONTROL
9. LOUDNESS SWITCH
10. AUDIO MUTE SWITCH
11. TREBLE CONTROL
12. BASS CONTROL
13. HEADPHONE JACK (PHONES)
14. PHONO JACKS
15. TUNER JACKS
16. AUX JACKS
17. TAPE SYSTEM RECORDING (REC)/PLAY JACKS
18. SPEAKER TERMINALS
19. AC CORD
20. AC OUTLETS
21. PRE OUT AND MAIN IN JACKS
22. GROUND TERMINALS

IV. PRINCIPAL PARTS LOCATION

1. MODEL UC-U3

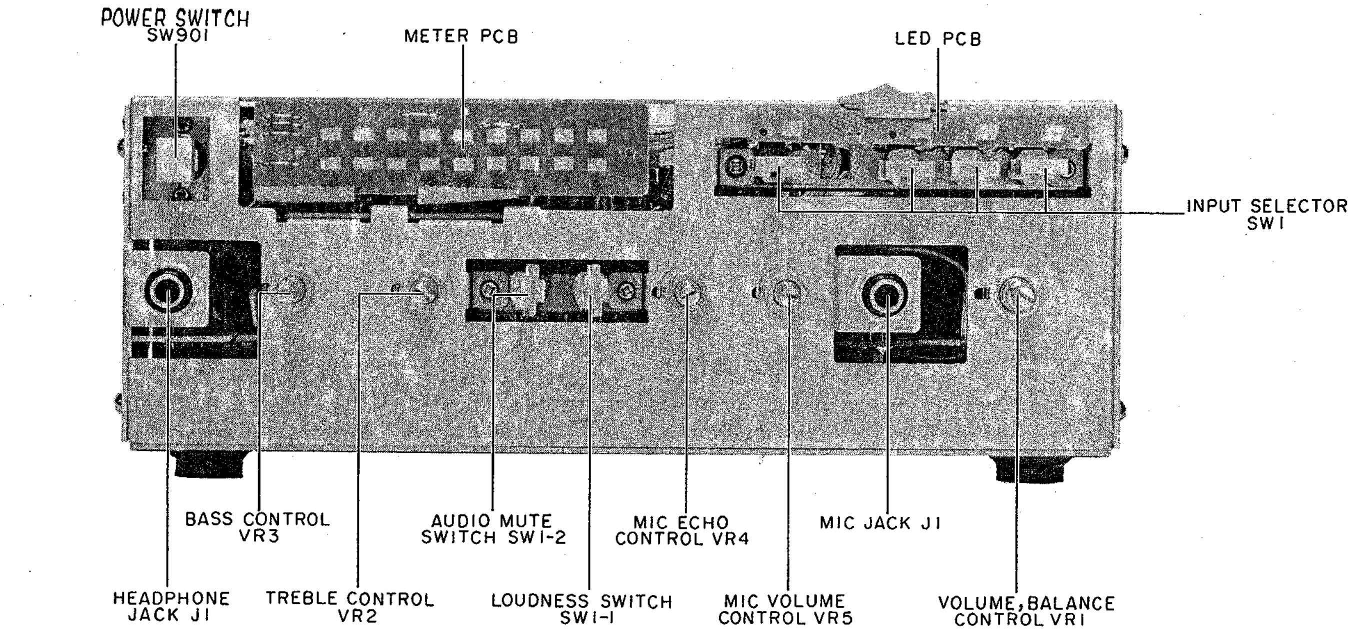

POWER SWITCH
SW901
METER PCB
LED PCB
INPUT SELECTOR
SW1
BASS CONTROL
VR3
AUDIO MUTE
SWITCH SW1-2
MIC ECHO
CONTROL VR4
MIC JACK J1
HEADPHONE
JACK J1
TREBLE CONTROL
VR2
LOUDNESS SWITCH
SW1-1
MIC VOLUME
CONTROL VR5
VOLUME, BALANCE
CONTROL VR1

Fig. 3 Front View

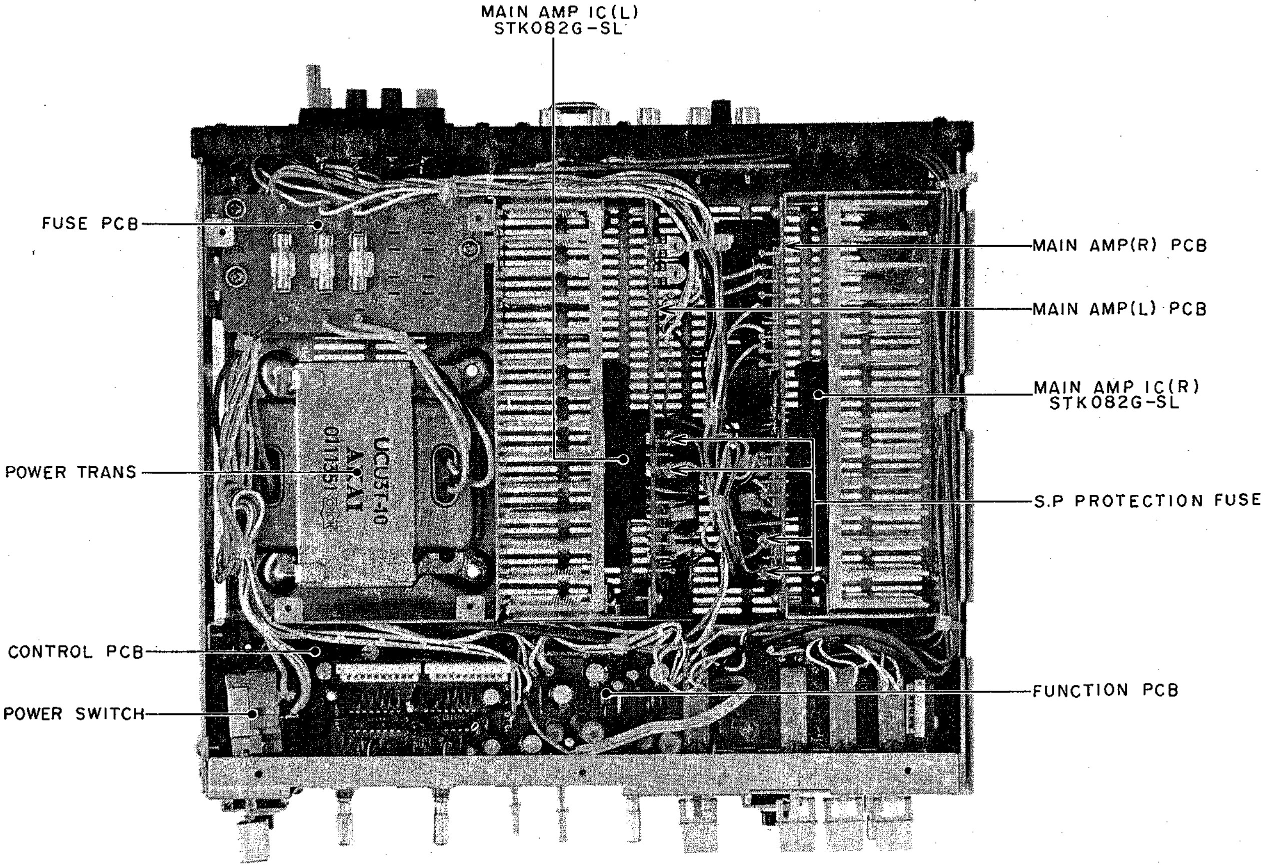

MAIN AMP IC(L)
STK082G-SL
FUSE PCB
MAIN AMP(R) PCB
MAIN AMP(L) PCB
MAIN AMP IC(R)
STK082G-SL
POWER TRANS
S.P PROTECTION FUSE
CONTROL PCB
FUNCTION PCB
POWER SWITCH
UCU3T-10
AKAI

Fig. 4 Top View

2. MODEL UC-U4

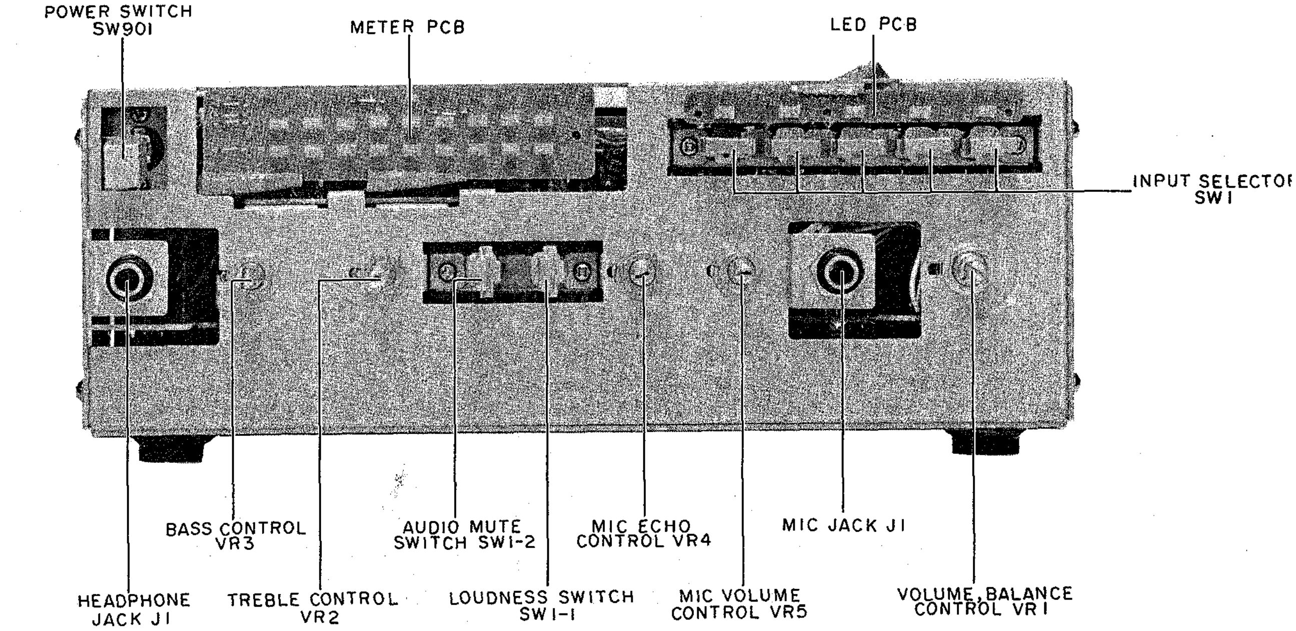

POWER SWITCH
SW901
METER PCB
LED PCB
INPUT SELECTOR
SW1
BASS CONTROL
VR3
AUDIO MUTE
SWITCH SW1-2
MIC ECHO
CONTROL VR4
MIC JACK J1
HEADPHONE
JACK J1
TREBLE CONTROL
VR2
LOUDNESS SWITCH
SW1-1
MIC VOLUME
CONTROL VR5
VOLUME, BALANCE
CONTROL VR1

Fig. 5 Front View

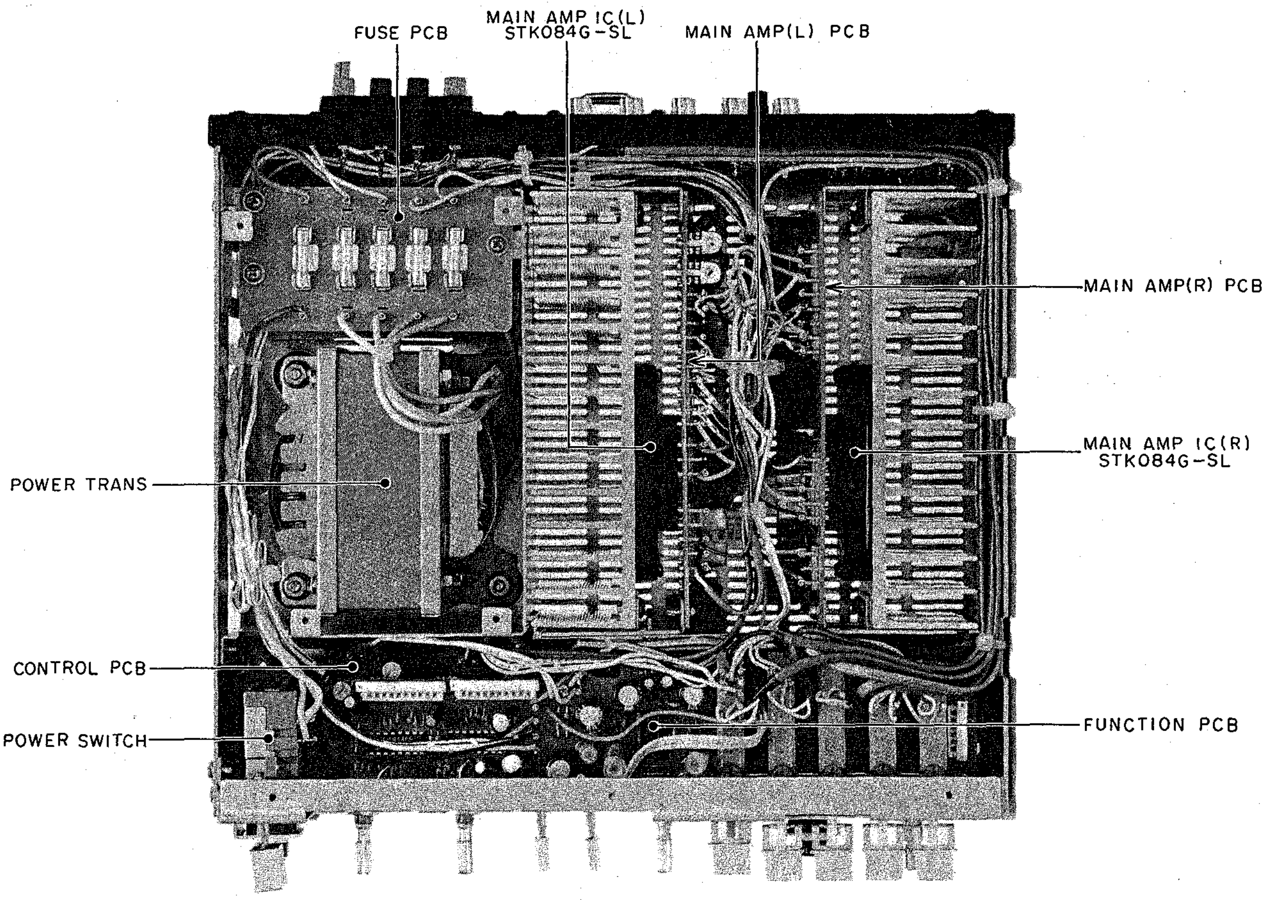

FUSE PCB
MAIN AMP IC(L)
STK084G-SL
MAIN AMP(L) PCB
MAIN AMP(R) PCB
MAIN AMP IC(R)
STK084G-SL
POWER TRANS
CONTROL PCB
POWER SWITCH
FUNCTION PCB

Fig. 6 Top View

V. VOLTAGE CONVERSION MODEL UC-U3

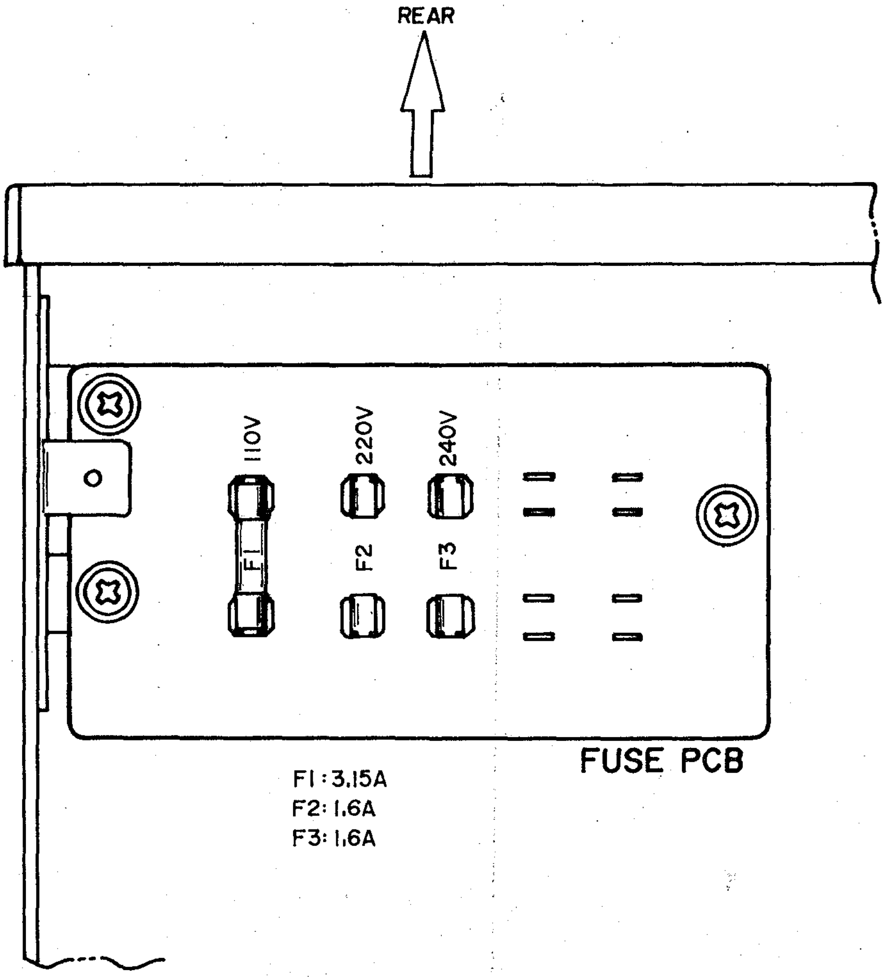


Fig. 7 Voltage Conversion (UC-U3 U/T Model Only)

Models for USA and Japan are not equipped with this facility.

Each machine is preset at the factory according to destination but some machines can be set to 110V, 220V or 240V as required.

If voltage change is necessary, this can be accomplished as follows:

1) Disconnect the power cord.
2) Loosen the holding screws and remove the Upper Cover.
3) Remove the existing Line Voltage Fuse on the Fuse P.C Board and insert the required Line Voltage Fuse into the proper fuse holder. Follow markings explicitly.

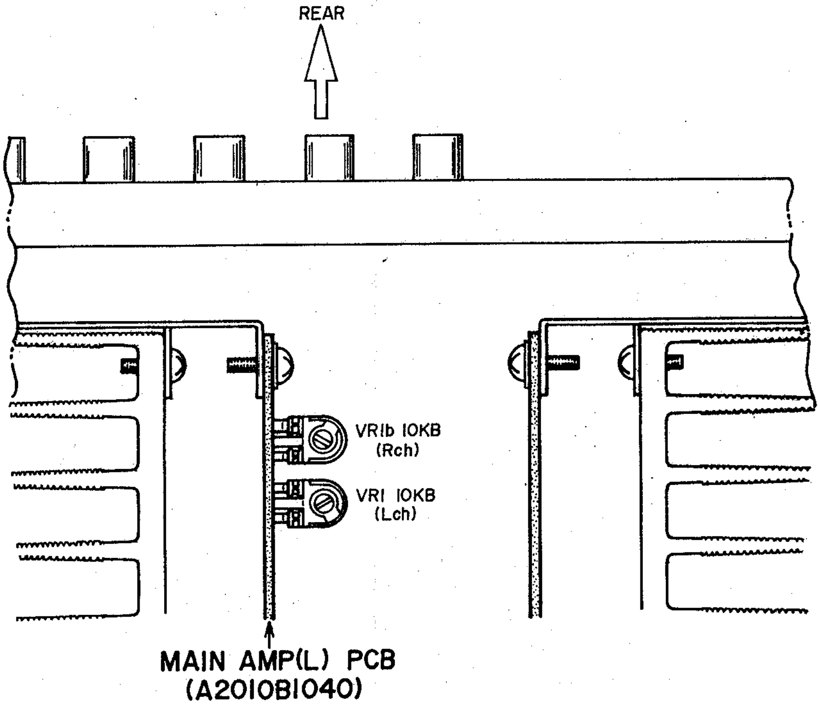

REAR
VRlb 10KB
(Rch)
VR1 10KB
(Lch)
MAIN AMP(L) PCB
(A2010B1040)

Fig. 8 LED Level Meter Adjustment

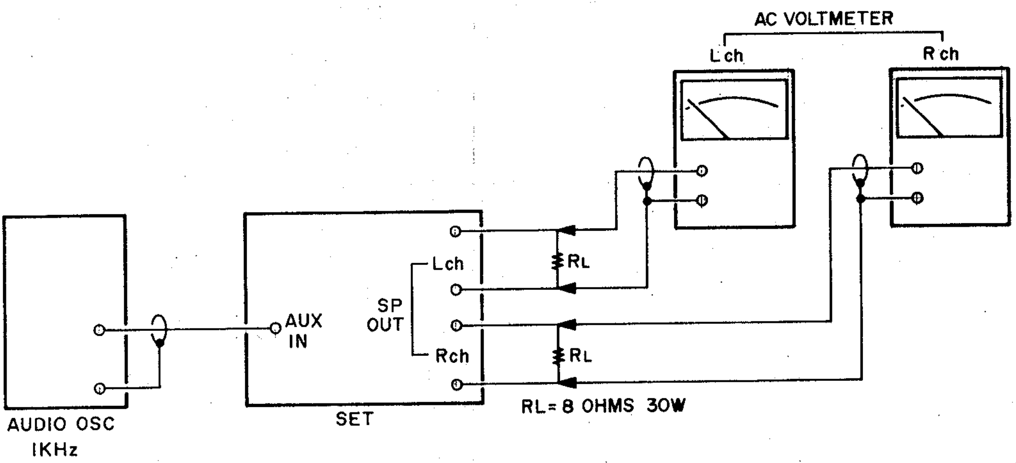

AC VOLTMETER
Lch
Rch
Lch
SP
OUT
Rch
AUX
IN
RL
RL
RL= 8 OHMS 30W
AUDIO OSC
1KHz
SET

Fig. 9 Instrument Connections

LED LEVEL METER SENSITIVITY ADJUSTMENT

Connect the load resistance RL (8 ohms) to the speaker terminals. Then apply a 1 kHz sine wave signal to the AUX terminals, and adjust the volume controls so that the output voltage read is 7.75V (UC-U3), 10.95V (UC-U4) at both ends of the load resistance RL. Next adjust the VR1 10 kB on the PRE AMP (L) PCB so that the LED LEVEL Meter's 7.5W (UC-U3), 15W (UC-U4) segments turn off first and then adjust the VR1 10 kB so that these segments fully light up.

VII. CLASSIFICATION OF VARIOUS P.C BOARDS

1. P.C BOARD TITLES AND IDENTIFICATION NUMBERS

1) Model UC-U3

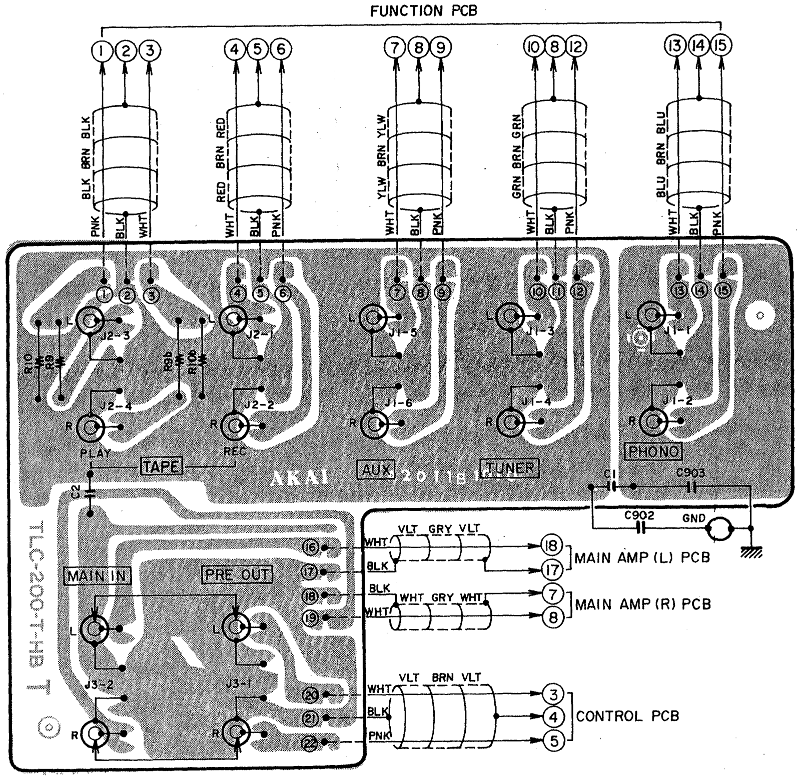
P.C Board Title	P.C Board Number
Input P. C Board	A2011B1010
Function P.C Board	A2010B1020
LED P.C Board	A2010B1021
Control P.C Board	A2010B1030
Main Amp (L) P.C Board	A2010B1040
IC (L) P.C Board	A2010B1041
Main Amp (R) P.C Board	A2010B1050
IC (R) P.C Board	A2010B1051
Headphone P.C Board	A2010D1060
Meter P.C Board	A2010C1070
Power Supply P.C Board	A2010C1080
Fuse P.C Board	A2010C1090

2) Model UC-U4

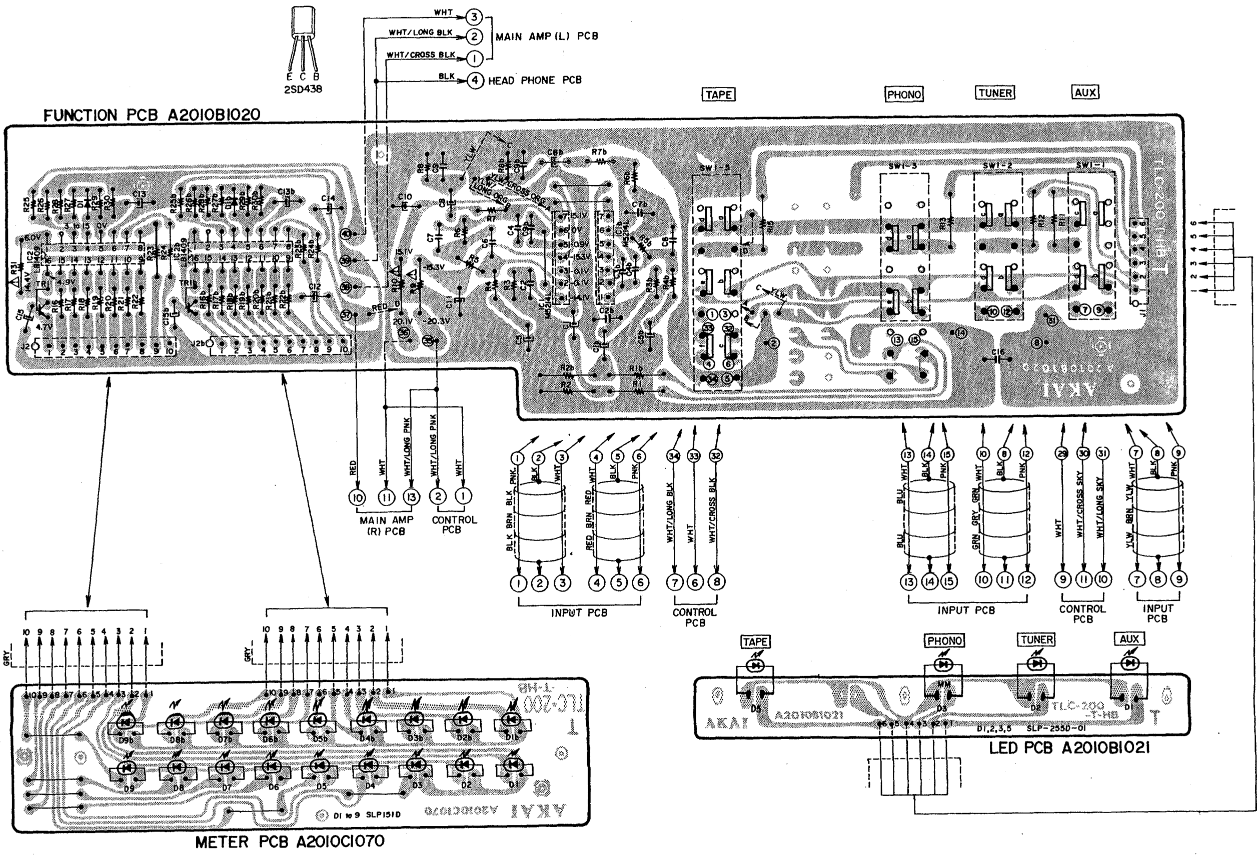
P.C Board Title	P.C Board Number
Input P. C Board	A2010B1010
Function P.C Board	A2010B1020
LED P.C Board	A2010B1021
Control P.C Board	A2010B1030
Main Amp (L) P.C Board	A2010B1040
IC (L) P.C Board	A2010B1041
Main Amp (R) P.C Board	A2010B1050
IC (R) P.C Board	A2010B1051
Headphone P.C Board	A2010D1060
Meter P.C Board	A2010C1070
Power Supply P.C Board	A2010C1080
Fuse P.C Board	A2010C1090

2. MODEL UC-U3 COMPOSITION OF VARIOUS P.C BOARDS

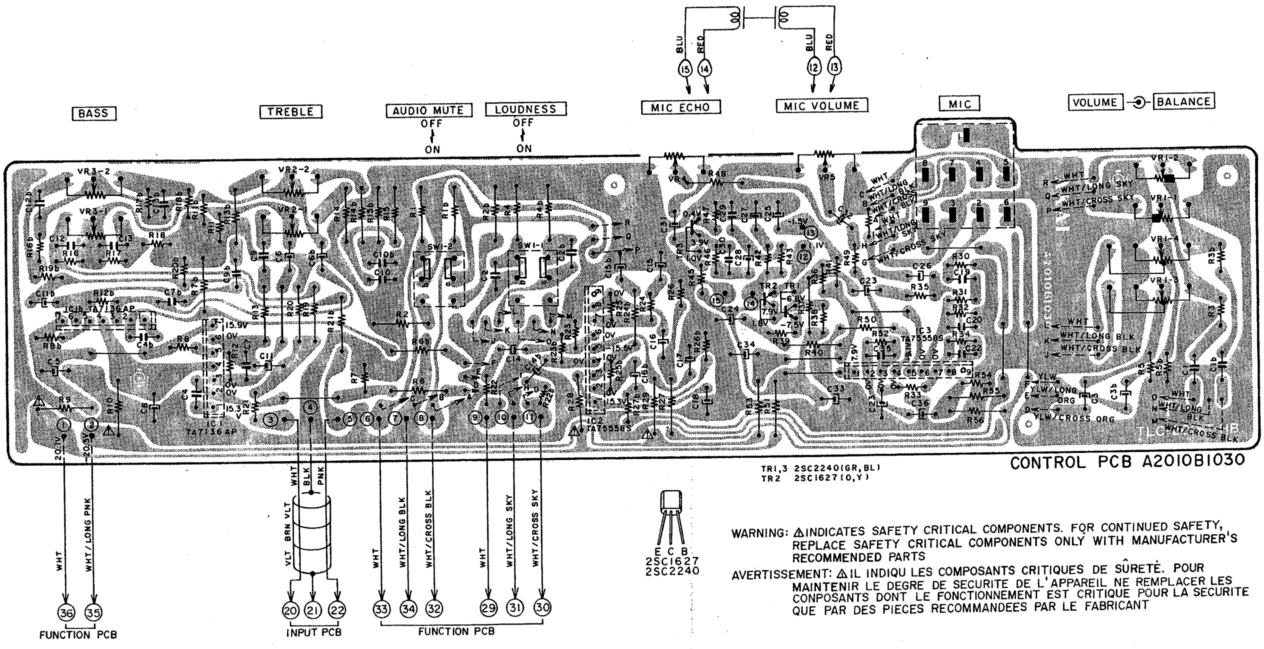
1) Input P.C Board A2011B1010


FUNCTION PCB
BLK BRN BLK
RED BRN RED
YLW BRN YLW
GRN BRN GRN
BLU BRN BLU
PNK BLK WHT
J2-3
J2-4
J2-1
J2-2
J1-5
J1-6
J1-3
J1-4
J1-1
J1-2
PLAY
REC
TAPE
AKAI
AUX
TUNER
PHONO
C1
C903
C902
GND
TLC-200-T-HB
MAIN IN
PRE OUT
J3-2
J3-1
VLT GRY VLT
WHT GRY WHT
VLT BRN VLT
MAIN AMP (L) PCB
MAIN AMP (R) PCB
CONTROL PCB

2) Function P.C Board A2010B1020, Meter P.C Board A2010C1070 and LED P.C Board A2010B1021


2SD438
E C B
FUNCTION PCB A2010B1020
WHT
WHT/LONG BLK
WHT/CROSS BLK
BLK
MAIN AMP (L) PCB
HEAD PHONE PCB
TAPE
PHONO
TUNER
AUX
SW1-5
SW1-3
SW1-2
SW1-1
TLC-200-T-HB
AKAI
MAIN AMP (R) PCB
CONTROL PCB
INPUT PCB
CONTROL PCB
INPUT PCB
CONTROL PCB
INPUT PCB
GRY
METER PCB A2010C1070
D1 to 9 SLP151D
LED PCB A2010B1021
D1,2,3,5 SLP-2550-01

3) Control P.C Board A2010B1030


BLU
RED
15
14
12
13
BASS
TREBLE
AUDIO MUTE
OFF
ON
LOUDNESS
OFF
ON
MIC ECHO
MIC VOLUME
MIC
VOLUME
BALANCE
VR3-2
VR3-1
VR2-2
VR2-1
SW1-2
SW1-1
VR4
VR5
VR1-2
VR1-1
TA7136AP
TA75558S
TR1
TR2
TR3
WHT
WHT/LONG PNK
VLT
BRN VLT
BLK
PNK
WHT/LONG BLK
WHT/CROSS BLK
WHT/LONG SKY
WHT/CROSS SKY
YLW
YLW/LONG ORG
YLW/CROSS ORG
36
35
FUNCTION PCB
20
21
22
INPUT PCB
33
34
32
29
31
30
FUNCTION PCB
TR1,3 2SC2240(GR,BL)
TR2 2SC1627(O,Y)
E C B
2SC1627
2SC2240
CONTROL PCB A2010B1030

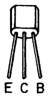
WARNING: ⚠INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

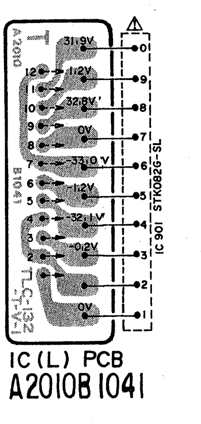
AVERTISSEMENT: ⚠IL INDIQU LES COMPOSANTS CRITIQUES DE SÛRETÉ. POUR MAINTENIR LE DEGRE DE SECURITE DE L'APPAREIL NE REMPLACER LES CONPOSANTS DONT LE FONCTIONNEMENT EST CRITIQUE POUR LA SECURITE QUE PAR DES PIECES RECOMMANDEES PAR LE FABRICANT

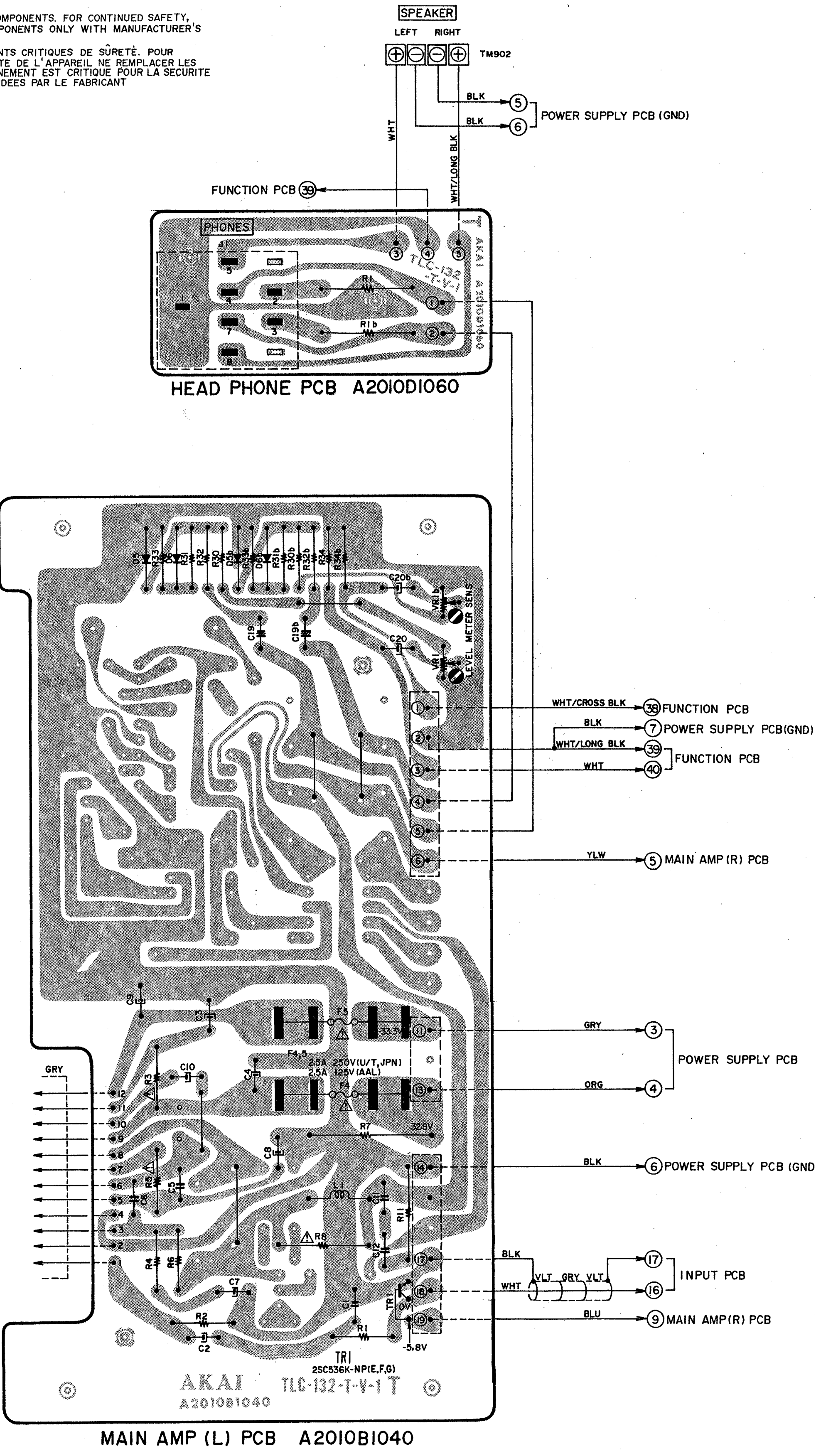
4) Main Amp (L) P.C Board A2010B1040, IC(L) P.C Board A2010B1041 and Headphone P.C Board A2010D1060

WARNING: ⚠INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

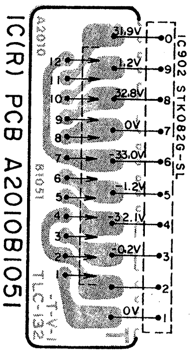
AVERTISSEMENT: ⚠IL INDIQU LES COMPOSANTS CRITIQUES DE SÛRETÉ. POUR MAINTENIR LE DEGRE DE SECURITE DE L'APPAREIL NE REMPLACER LES CONPOSANTS DONT LE FONCTIONNEMENT EST CRITIQUE POUR LA SECURITE QUE PAR DES PIECES RECOMMANDEES PAR LE FABRICANT

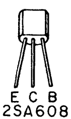




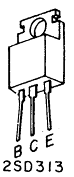

SPEAKER
LEFT
RIGHT
TM902
BLK ⑤
BLK ⑥
POWER SUPPLY PCB (GND)
WHT
WHT/LONG BLK
FUNCTION PCB ㊴
PHONES
J1
R1
R1b
TLC-132 -T-V-1
AKAI A2010D1060
HEAD PHONE PCB A2010D1060
D5 R33 D3 R31 R32 R30 D5b R33b D3b R31b R30b R32b R34 R34b
C20b
VR1b
C19 C19b
C20
VR1
LEVEL METER SENS
WHT/CROSS BLK ㊳ FUNCTION PCB
BLK ⑦ POWER SUPPLY PCB(GND)
WHT/LONG BLK ㊴
WHT ㊵
FUNCTION PCB
YLW ⑤ MAIN AMP (R) PCB
C9
C3
F5
-33.3V
F4,5
2.5A 250V(U/T,JPN)
2.5A 125V(AAL)
F4
C10
C4
R3
R7
32.8V
C8
GRY ③
ORG ④
POWER SUPPLY PCB
BLK ⑥ POWER SUPPLY PCB (GND)
GRY
R5
C6
C5
L1
C11
R11
R8
C12
R4
R6
C7
C1
TR1
0V
R2
C2
R1
-5.8V
TR1
2SC536K-NP(E,F,G)
BLK
WHT
VLT GRY VLT
⑰ ⑯ INPUT PCB
BLU ⑨ MAIN AMP(R) PCB
AKAI A2010B1040
TLC-132-T-V-1
MAIN AMP (L) PCB A2010B1040
A2010 B1041
31.9V
-1.2V
32.8V
0V
-33.0V
-1.2V
-32.1V
-0.2V
0V
IC 901 STK082G-SL
TLC-132 -T-V-1
IC(L) PCB
A2010B1041

5) Main Amp (R) P.C Board A2010B1050 and IC (R) P.C Board A2010B1051

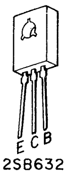

IC(R) PCB A2010B1051
A2010
B1051
TLC-T-V-I
TLC-132
IC902 STK082G-SL
31.9V
1.2V
32.8V
0V
33.0V
-1.2V
-32.1V
-0.2V
0V
1
2
3
4
5
6
7
8
9
10
11
12


E C B

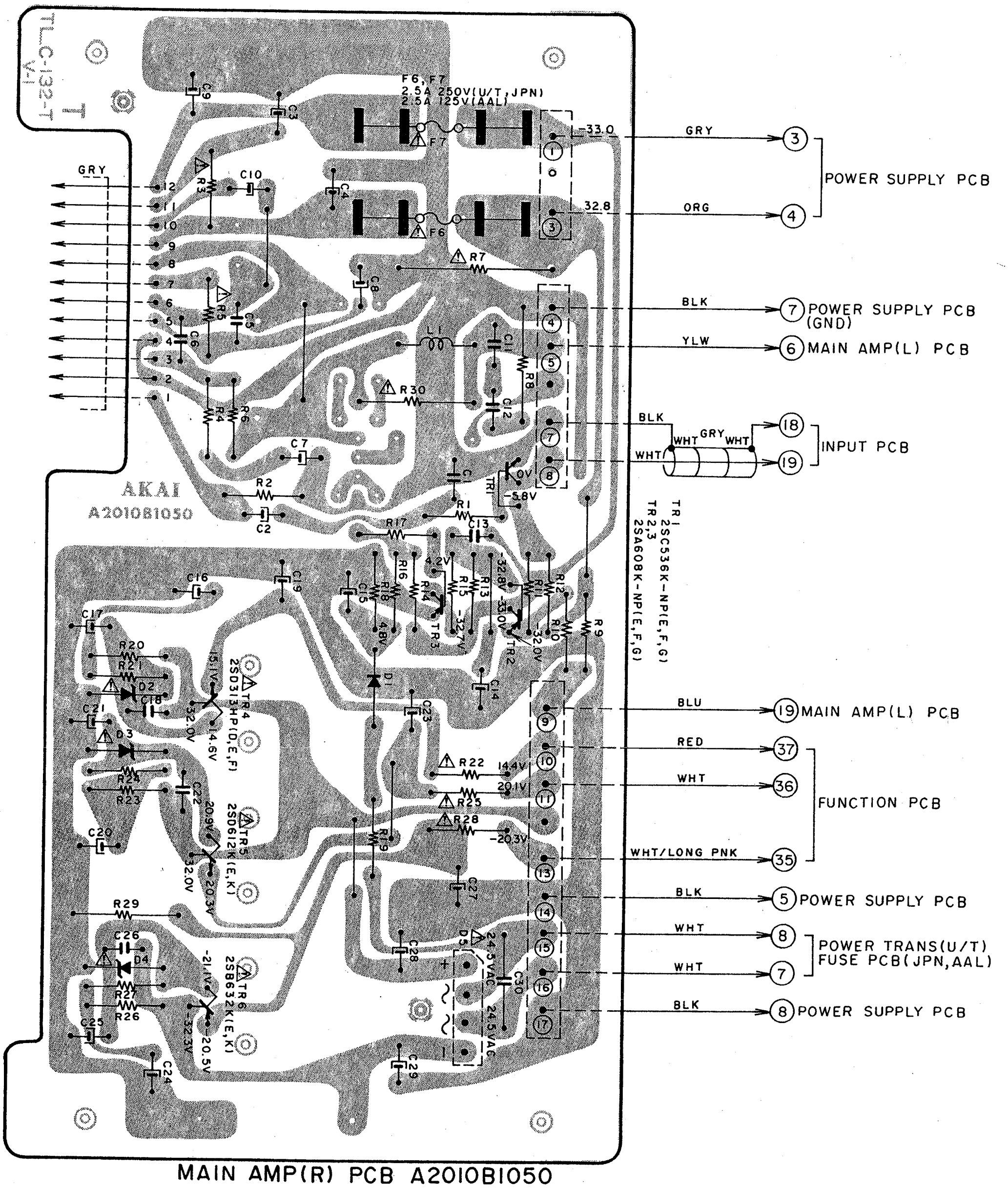
2SA608
2SC536


B C E

2SD313


E C B

2SB632
2SD612

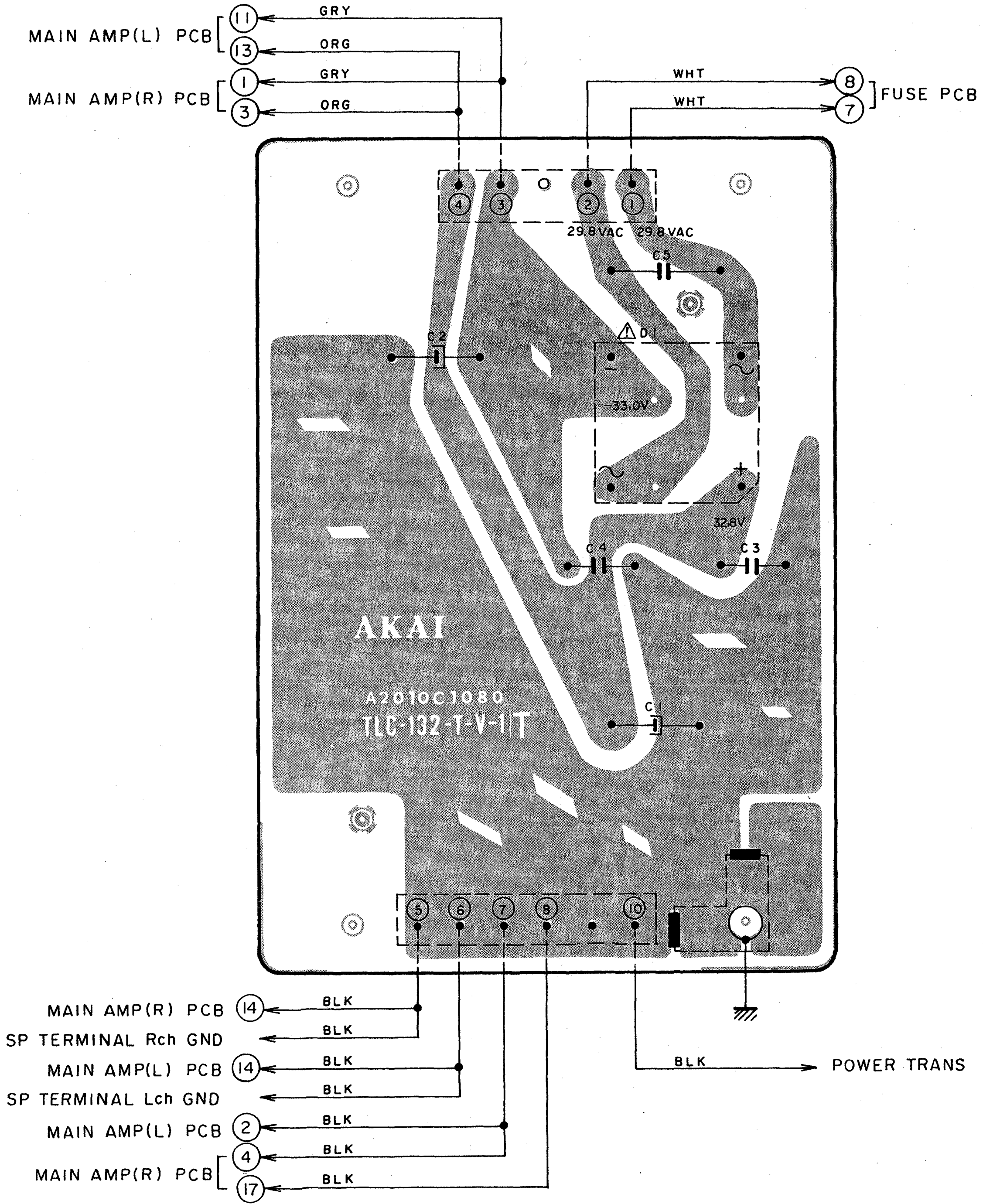

TLC-132-T
V-I
T
GRY
F6, F7
2.5A 250V(U/T, JPN)
2.5A 125V(AAL)
F7
F6
-33.0
32.8
GRY
ORG
③
④
POWER SUPPLY PCB
BLK
YLW
⑦ POWER SUPPLY PCB (GND)
⑥ MAIN AMP(L) PCB
BLK
WHT
GRY
WHT
WHT
⑱
⑲
INPUT PCB
TR1 2SC536K-NP(E,F,G)
TR2,3 2SA608K-NP(E,F,G)
AKAI
A2010B1050
C1
C2
C3
C4
C5
C6
C7
C8
C9
C10
C11
C12
C13
C14
C15
C16
C17
C18
C19
C20
C21
C22
C23
C24
C25
C26
C27
C28
C29
C30
R1
R2
R3
R4
R5
R6
R7
R8
R9
R10
R11
R12
R13
R14
R15
R16
R17
R18
R19
R20
R21
R22
R23
R24
R25
R26
R27
R28
R29
R30
L1
D1
D2
D3
D4
D5
TR1
TR2
TR3
TR4
TR5
TR6
0V
-5.8V
4.2V
-32.8V
-33.0V
-32.1V
-32.0V
4.8V
2SD313HP(D,E,F)
15.1V
14.6V
32.0V
2SD612K(E,K)
20.9V
32.0V
-20.3V
2SB632K(E,K)
-21.1V
-32.3V
-20.5V
14.4V
20.1V
-20.3V
24.5VAC
24.5VAC
BLU
⑲ MAIN AMP(L) PCB
RED
WHT
WHT/LONG PNK
㊲
㊱
㉟
FUNCTION PCB
BLK
⑤ POWER SUPPLY PCB
WHT
WHT
⑧
⑦
POWER TRANS(U/T) FUSE PCB(JPN,AAL)
BLK
⑧ POWER SUPPLY PCB
①
②
③
④
⑤
⑦
⑧
⑨
⑩
⑪
⑬
⑭
⑮
⑯
⑰

MAIN AMP(R) PCB A2010B1050

WARNING: ⚠INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

AVERTISSEMENT: ⚠IL INDIQU LES COMPOSANTS CRITIQUES DE SÛRETÉ. POUR MAINTENIR LE DEGRE DE SECURITE DE L'APPAREIL NE REMPLACER LES CONPOSANTS DONT LE FONCTIONNEMENT EST CRITIQUE POUR LA SECURITE QUE PAR DES PIECES RECOMMANDEES PAR LE FABRICANT

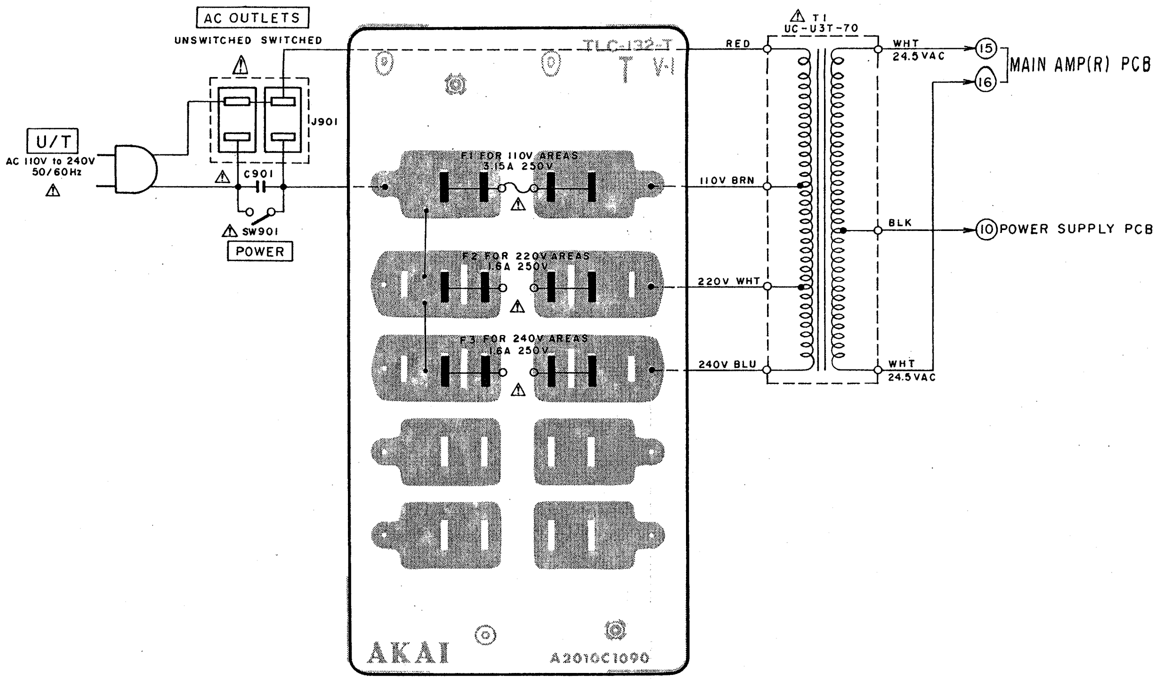
6) Power Supply P.C Board A2010C1080


MAIN AMP(L) PCB
11
13
GRY
ORG
MAIN AMP(R) PCB
1
3
GRY
ORG
WHT
WHT
8
7
FUSE PCB
4
3
2
1
29.8VAC
29.8VAC
C5
D1
-33.0V
32.8V
C2
C4
C3
C1
AKAI
A2010C1080
TLC-132-T-V-1T
5
6
7
8
10
MAIN AMP(R) PCB 14
BLK
SP TERMINAL Rch GND
BLK
MAIN AMP(L) PCB 14
BLK
SP TERMINAL Lch GND
BLK
MAIN AMP(L) PCB 2
BLK
MAIN AMP(R) PCB 4
BLK
17
BLK
BLK
POWER TRANS

WARNING: ⚠INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

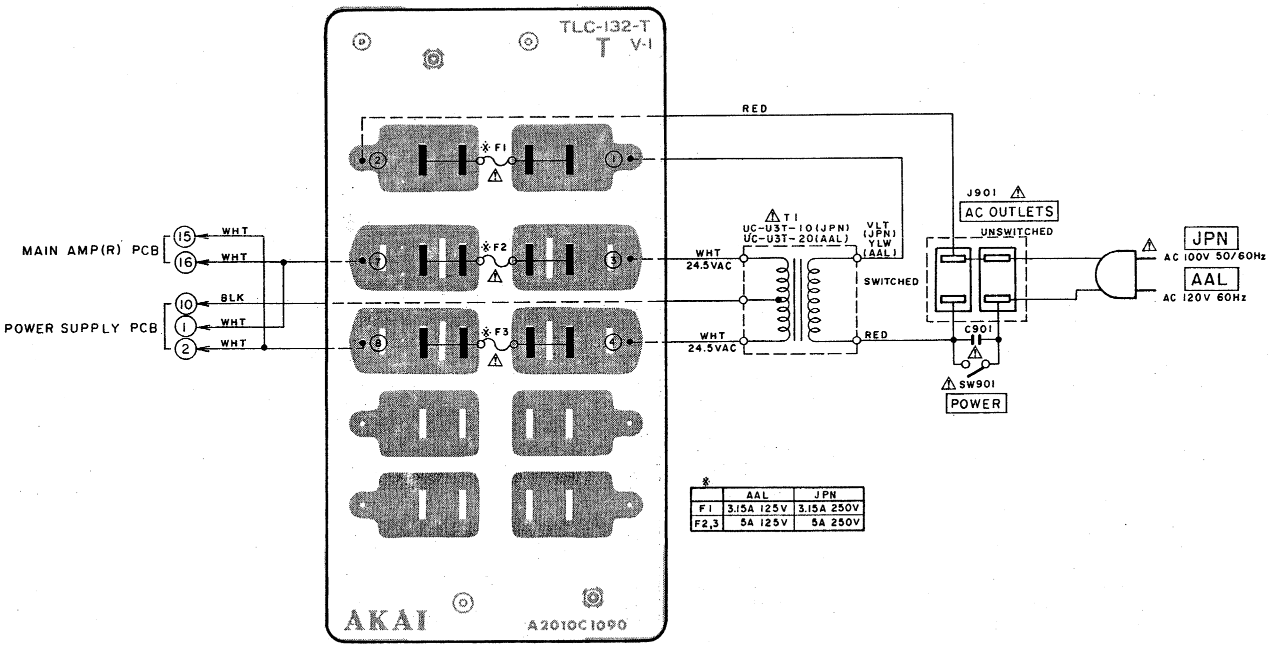
AVERTISSEMENT: ⚠IL INDIQU LES COMPOSANTS CRITIQUES DE SÛRETÉ. POUR MAINTENIR LE DEGRE DE SECURITE DE L'APPAREIL NE REMPLACER LES CONPOSANTS DONT LE FONCTIONNEMENT EST CRITIQUE POUR LA SECURITE QUE PAR DES PIECES RECOMMANDEES PAR LE FABRICANT

7) Fuse P.C Board A2010C1090 (U/T)


AC OUTLETS
UNSWITCHED SWITCHED
J901
U/T
AC 110V to 240V 50/60Hz
C901
SW901
POWER
TLC-132-T
V-1
F1 FOR 110V AREAS 3.15A 250V
F2 FOR 220V AREAS 1.6A 250V
F3 FOR 240V AREAS 1.6A 250V
AKAI
A2010C1090
RED
110V BRN
220V WHT
240V BLU
T1
UC-U3T-70
WHT 24.5VAC
BLK
WHT 24.5VAC
15
16
MAIN AMP(R) PCB
10
POWER SUPPLY PCB

FUSE PCB A2010C1090

8) Fuse P.C Board A2010C1090 (JPN, AAL)


TLC-132-T
V-1
RED
※F1
※F2
※F3
MAIN AMP(R) PCB
15
16
WHT
WHT
POWER SUPPLY PCB
10
1
2
BLK
WHT
WHT
T1
UC-U3T-10(JPN)
UC-U3T-20(AAL)
VLT (JPN)
YLW (AAL)
WHT 24.5VAC
WHT 24.5VAC
SWITCHED
RED
J901
AC OUTLETS
UNSWITCHED
C901
SW901
POWER
JPN
AC 100V 50/60Hz
AAL
AC 120V 60Hz
AKAI
A2010C1090

※

	AAL	JPN
F1	3.15A 125V	3.15A 250V
F2,3	5A 125V	5A 250V

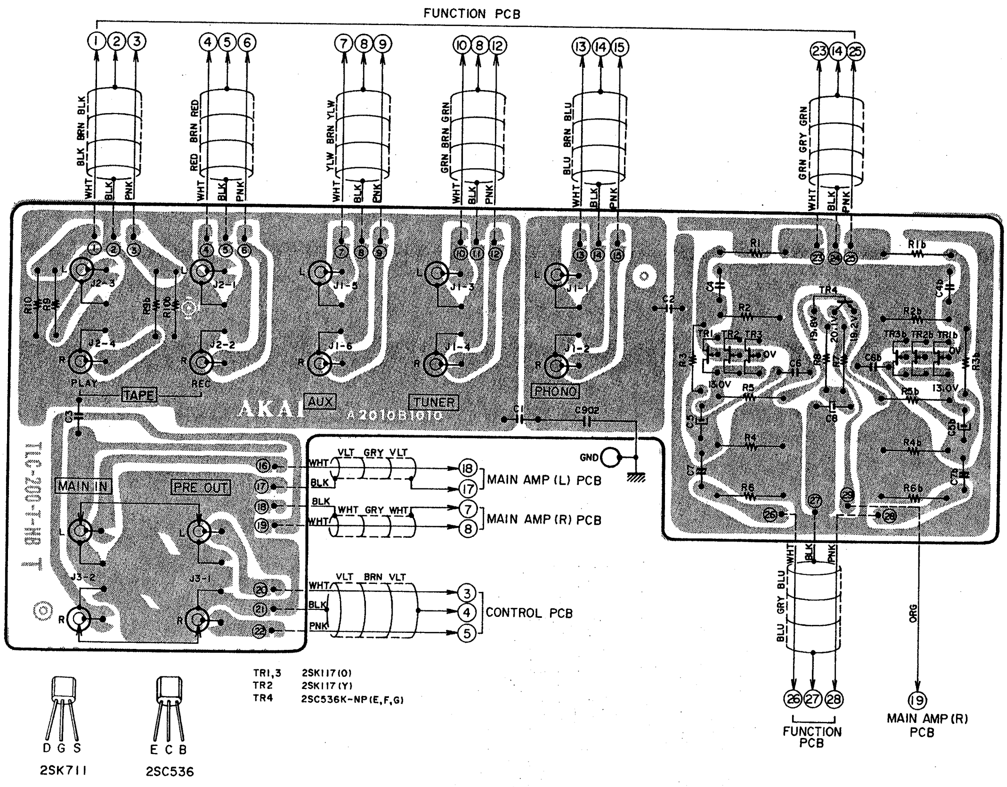
FUSE PCB A2010C1090

WARNING: ⚠INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

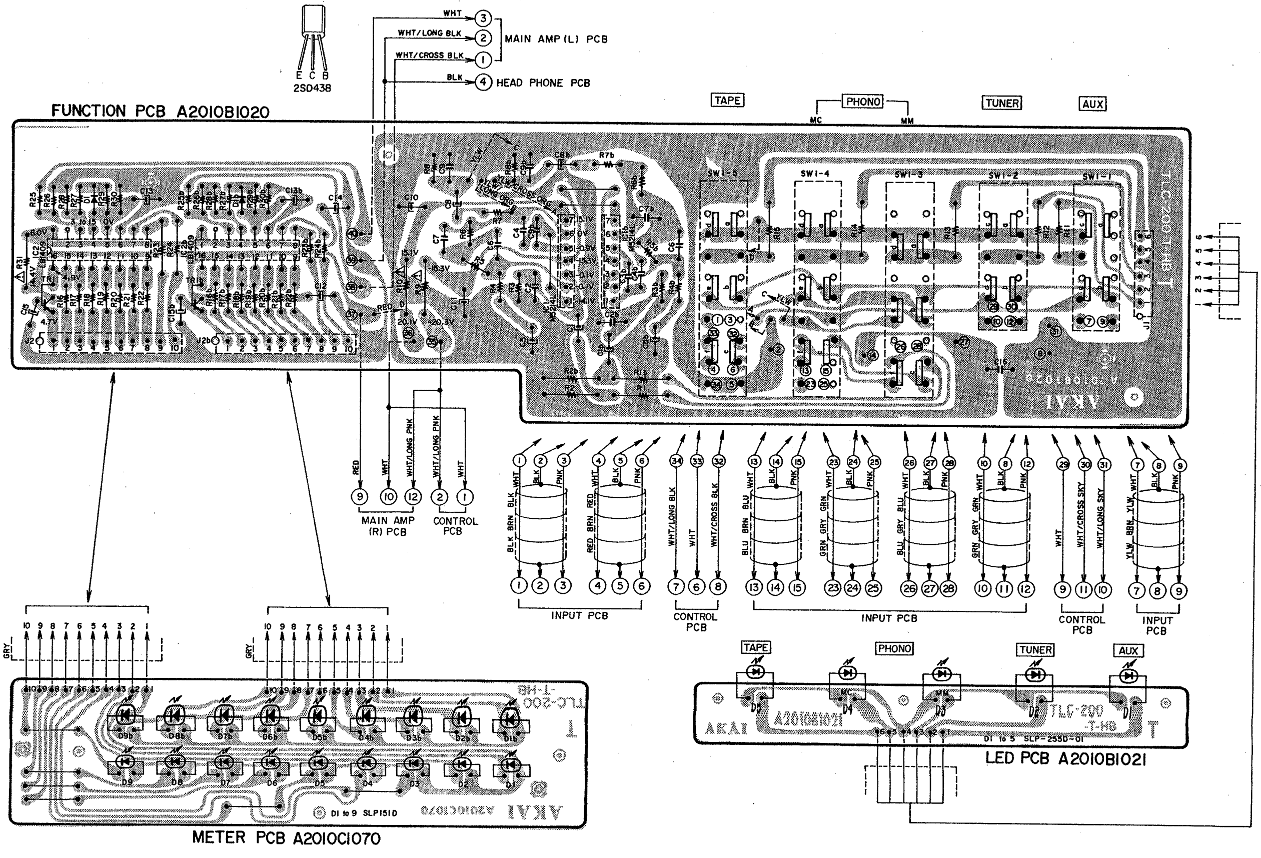
AVERTISSEMENT: ⚠ IL INDIQU LES COMPOSANTS CRITIQUES DE SÛRETÉ. POUR MAINTENIR LE DEGRE DE SECURITE DE L'APPAREIL NE REMPLACER LES COMPOSANTS DONT LE FONCTIONNEMENT EST CRITIQUE POUR LA SECURITE QUE PAR DES PIECES RECOMMANDEES PAR LE FABRICANT

3. MODEL UC-U4 COMPOSITION OF VARIOUS P.C BOARDS

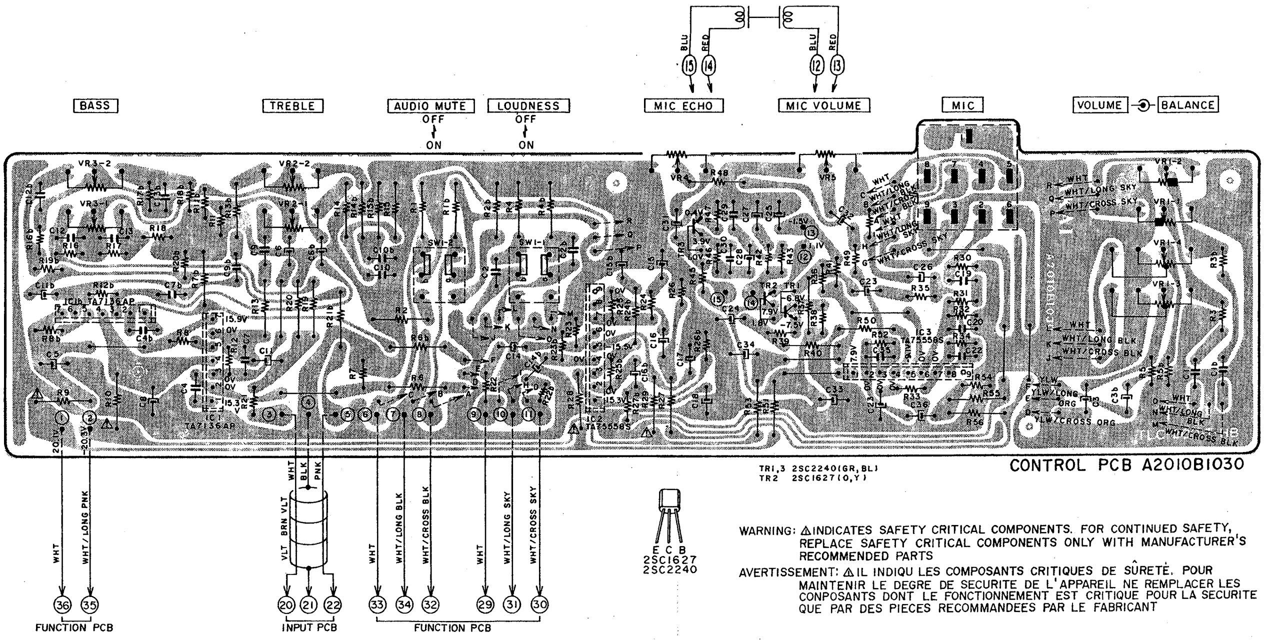
1) Input P.C Board A2010B1010


FUNCTION PCB
BLK BRN BLK
RED BRN RED
YLW BRN YLW
GRN BRN GRN
BLU BRN BLU
GRN GRY GRN
WHT BLK PNK
J2-3
J2-1
J1-5
J1-3
J1-1
J2-4
J2-2
J1-6
J1-4
J1-2
PLAY
REC
TAPE
AUX
TUNER
PHONO
AKAI
A2010B1010
TLC-200-I-HB T
MAIN IN
PRE OUT
J3-2
J3-1
VLT GRY VLT
WHT GRY WHT
MAIN AMP (L) PCB
MAIN AMP (R) PCB
VLT BRN VLT
CONTROL PCB
GND
TR1, TR2, TR3, TR4
TR3b TR2b TR1b
13.0V
0V
BLU GRY BLU
ORG
FUNCTION PCB
MAIN AMP (R) PCB
TR1,3 2SK117(O)
TR2 2SK117(Y)
TR4 2SC536K-NP(E,F,G)
D G S
2SK711
E C B
2SC536

2) Function P.C Board A2010B1020, Meter P.C Board A2010C1070 and LED P.C Board A2010B1021


E C B
2SD438
WHT
WHT/LONG BLK
WHT/CROSS BLK
BLK
MAIN AMP (L) PCB
HEAD PHONE PCB
FUNCTION PCB A2010B1020
TAPE
PHONO
MC
MM
TUNER
AUX
SW1-5
SW1-4
SW1-3
SW1-2
SW1-1
TLC-200-T-HB T
A2010B1020
AKAI
RED
WHT
WHT/LONG PNK
MAIN AMP (R) PCB
CONTROL PCB
INPUT PCB
CONTROL PCB
INPUT PCB
CONTROL PCB
INPUT PCB
GRY
LED PCB A2010B1021
D1 to 5 SLP-255D-01
TLC-200 -T-HB
A2010B1021
AKAI
METER PCB A2010C1070
D1 to 9 SLP151D
A2010C1070
AKAI
TLC-200 -T-HB

3) Control P.C Board A2010B1030


BASS
TREBLE
AUDIO MUTE
OFF
ON
LOUDNESS
OFF
ON
MIC ECHO
MIC VOLUME
MIC
VOLUME
BALANCE
BLU
RED
⑮
⑭
⑫
⑬
CONTROL PCB A2010B1030
TR1,3 2SC2240(GR,BL)
TR2 2SC1627(O,Y)
E C B
2SC1627
2SC2240
WHT
WHT/LONG PNK
㊱
㉟
FUNCTION PCB
VLT
BRN
WHT
BLK
PNK
⑳
㉑
㉒
INPUT PCB
WHT/LONG BLK
WHT/CROSS BLK
㉝
㉞
㉜
WHT/LONG SKY
WHT/CROSS SKY
㉙
㉛
㉚
FUNCTION PCB
TA7136AP
TA7555BS

WARNING: ⚠INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

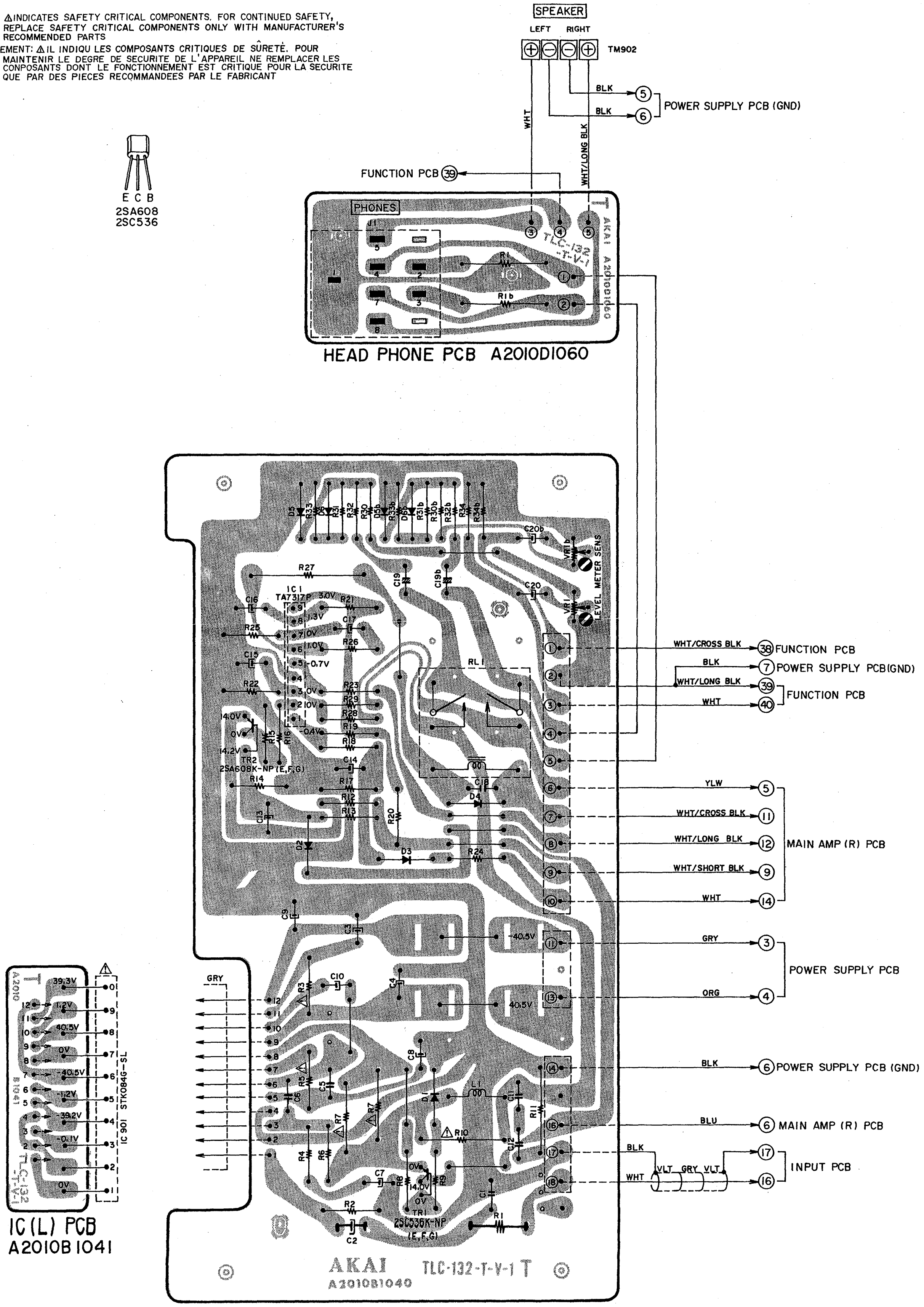
AVERTISSEMENT: ⚠IL INDIQU LES COMPOSANTS CRITIQUES DE SÛRETÉ. POUR MAINTENIR LE DEGRE DE SECURITE DE L'APPAREIL NE REMPLACER LES CONPOSANTS DONT LE FONCTIONNEMENT EST CRITIQUE POUR LA SECURITE QUE PAR DES PIECES RECOMMANDEES PAR LE FABRICANT

4) Main Amp (L) P.C Board A2010B1040, IC(L) P.C Board A2010B1041 and Headphone P.C Board A2010D1060

WARNING: ⚠INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

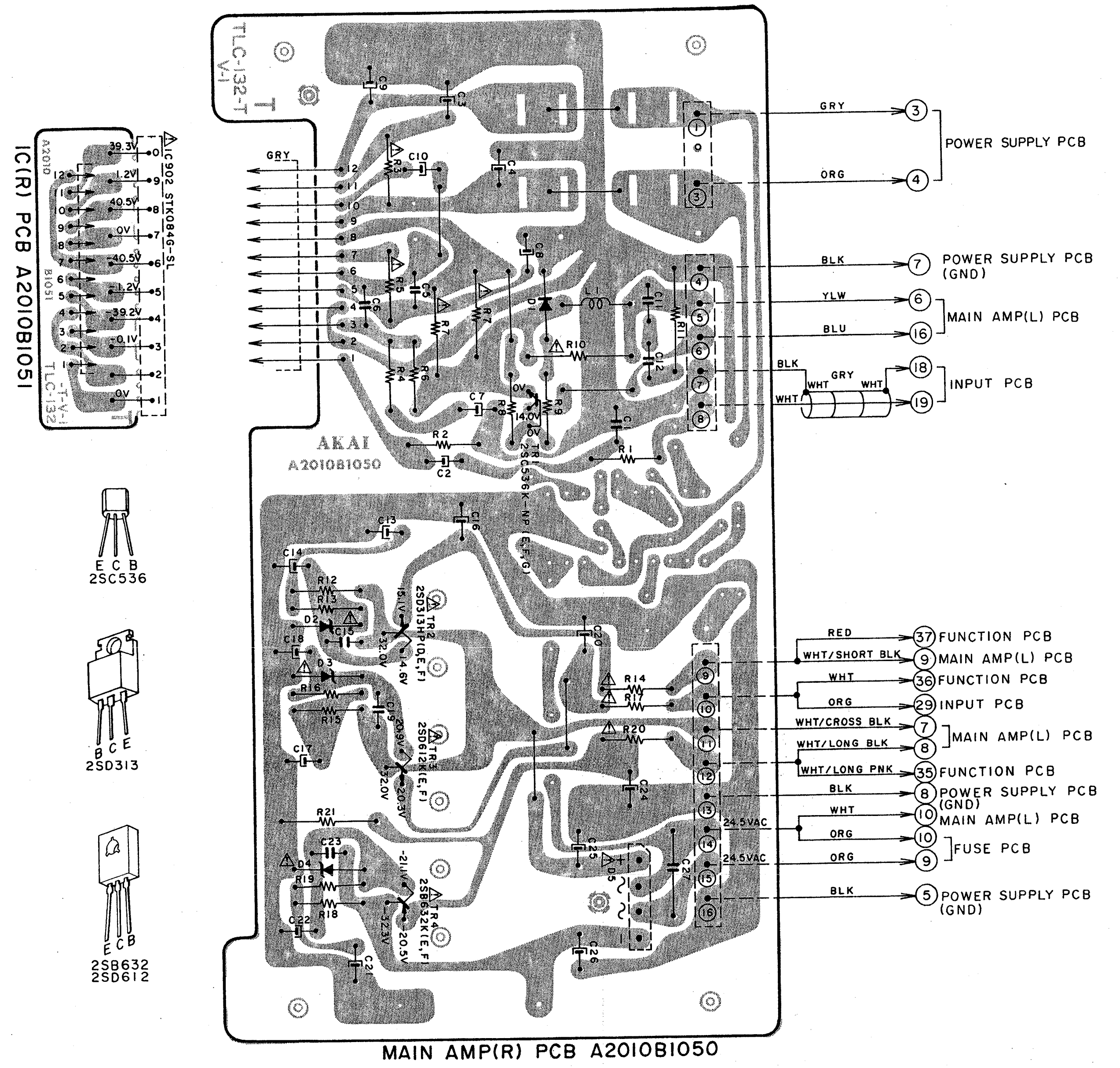
AVERTISSEMENT: ⚠ IL INDIQU LES COMPOSANTS CRITIQUES DE SÛRETÈ. POUR MAINTENIR LE DEGRE DE SECURITE DE L'APPAREIL NE REMPLACER LES CONPOSANTS DONT LE FONCTIONNEMENT EST CRITIQUE POUR LA SECURITE QUE PAR DES PIECES RECOMMANDEES PAR LE FABRICANT

E C B
2SA608
2SC536


SPEAKER
LEFT
RIGHT
TM902
BLK
⑤
⑥
POWER SUPPLY PCB (GND)
WHT
WHT/LONG BLK
FUNCTION PCB ㊴
PHONES
J1
R1
R1b
TLC-132-T-V-1
AKAI A2010D1060
HEAD PHONE PCB A2010D1060
R27
IC1
TA7317P
C16
C17
C15
R25
R21
R26
R22
R23
R29
R28
R19
R18
R15
R16
TR2
2SA608K-NP (E,F,G)
R14
C14
R17
R12
R13
R20
C13
D2
D3
D4
R24
RL1
C18
C19
C19b
C20
C20b
VR1
VR1b
LEVEL METER SENS
D5
D5b
R30
R30b
R31
R31b
R32
R32b
R33
R33b
R34
R34b
WHT/CROSS BLK
㊳ FUNCTION PCB
BLK
⑦ POWER SUPPLY PCB (GND)
WHT/LONG BLK
㊴
WHT
㊵
FUNCTION PCB
YLW
⑤
WHT/CROSS BLK
⑪
WHT/LONG BLK
⑫
MAIN AMP (R) PCB
WHT/SHORT BLK
⑨
WHT
⑭
GRY
③
POWER SUPPLY PCB
ORG
④
-40.5V
40.5V
BLK
⑥ POWER SUPPLY PCB (GND)
BLU
⑥ MAIN AMP (R) PCB
BLK
⑰
WHT
VLT GRY VLT
⑯
INPUT PCB
GRY
C9
C3
C10
C4
C8
C5
C6
C7
C2
C1
C11
C12
R3
R5
R7
R8
R4
R6
R9
R10
R11
R1
R2
L1
D1
TR1
2SC536K-NP (E,F,G)
14.0V
0V
AKAI
A2010B1040
TLC-132-T-V-1 T
39.3V
1.2V
40.5V
0V
-40.5V
-1.2V
-39.2V
-0.1V
IC 901 STK084G-SL
A2010 B1041
TLC-132-T-V-1
IC (L) PCB
A2010B 1041

MAIN AMP (L) PCB A2010B1040

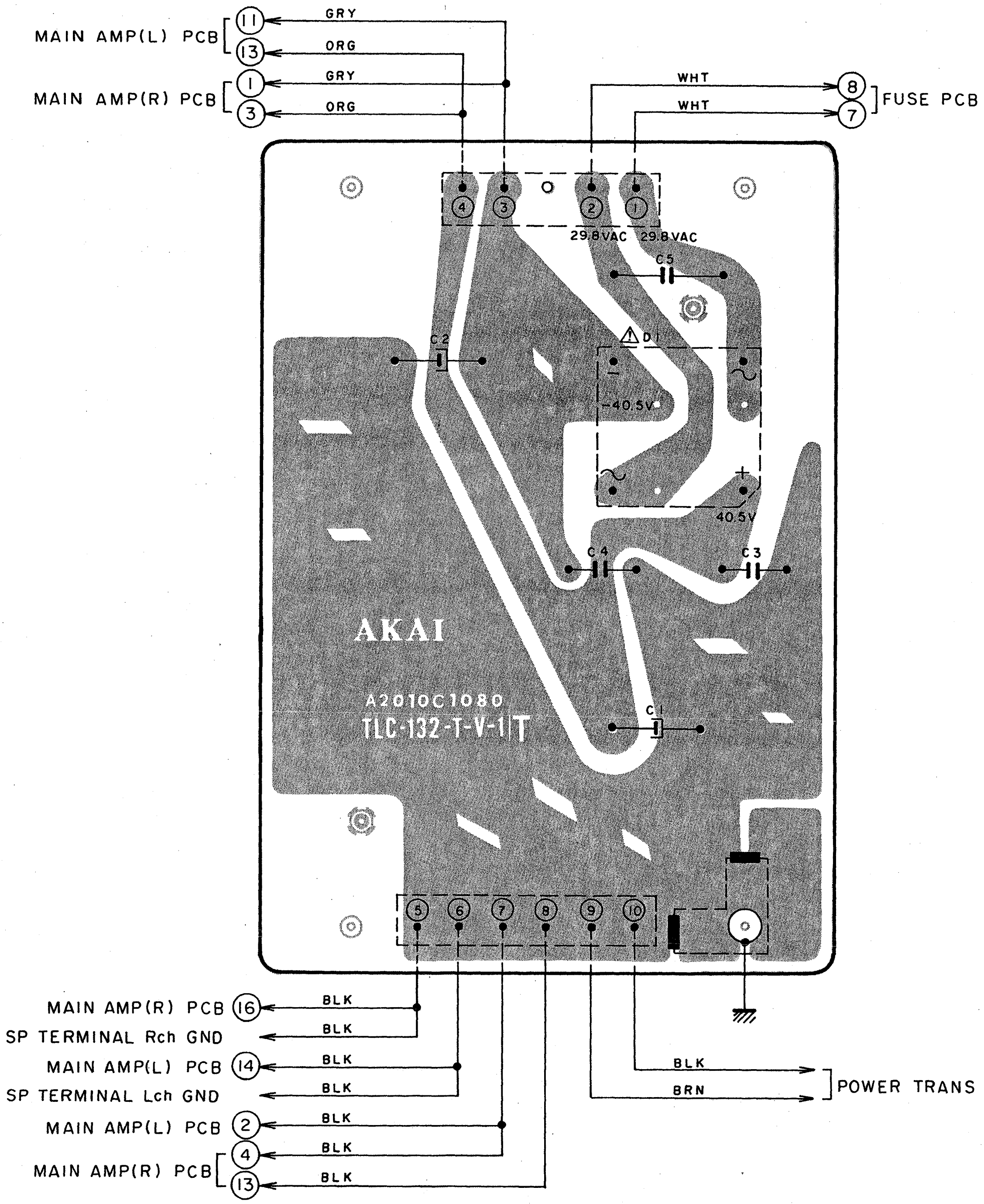
5) Main Amp (R) P.C Board A2010B1050 and IC (R) P.C Board A2010B1051


IC(R) PCB A2010B1051
IC902 STK084G-SL
39.3V
1.2V
40.5V
0V
-40.5V
-1.2V
-39.2V
-0.1V
TLC-132-T
V-1
GRY
AKAI
A2010B1050
TR1 2SC536K-NP(E,F,G)
TR2 2SD313HP(D,E,F)
TR3 2SD612K(E,F)
TR4 2SB632K(E,F)
POWER SUPPLY PCB
POWER SUPPLY PCB (GND)
MAIN AMP(L) PCB
INPUT PCB
FUNCTION PCB
FUSE PCB
GRY
ORG
BLK
YLW
BLU
WHT
RED
WHT/SHORT BLK
WHT/CROSS BLK
WHT/LONG BLK
WHT/LONG PNK
24.5VAC
E C B
2SC536
B C E
2SD313
E C B
2SB632
2SD612
MAIN AMP(R) PCB A2010B1050

WARNING: ⚠INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

AVERTISSEMENT: ⚠IL INDIQU LES COMPOSANTS CRITIQUES DE SÛRETÉ. POUR MAINTENIR LE DEGRE DE SECURITE DE L'APPAREIL NE REMPLACER LES COMPOSANTS DONT LE FONCTIONNEMENT EST CRITIQUE POUR LA SECURITE QUE PAR DES PIECES RECOMMANDEES PAR LE FABRICANT

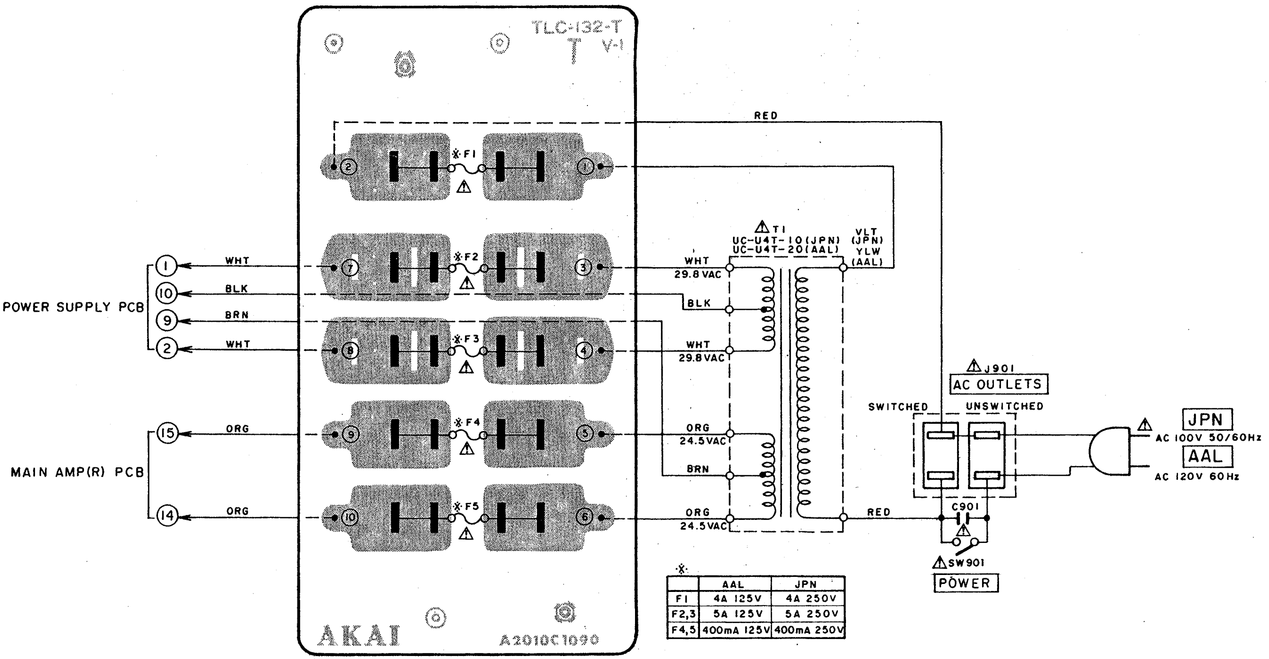
6) Power Supply P.C Board A2010C1080


MAIN AMP(L) PCB
11
13
GRY
ORG
MAIN AMP(R) PCB
1
3
GRY
ORG
WHT
WHT
8
7
FUSE PCB
4
3
2
1
29.8VAC
29.8VAC
C5
C2
D1
-40.5V
40.5V
C4
C3
C1
AKAI
A2010C1080
TLC-132-T-V-1 T
5
6
7
8
9
10
MAIN AMP(R) PCB
16
SP TERMINAL Rch GND
MAIN AMP(L) PCB
14
SP TERMINAL Lch GND
MAIN AMP(L) PCB
2
MAIN AMP(R) PCB
4
13
BLK
BLK
BLK
BLK
BLK
BLK
BLK
BLK
BRN
POWER TRANS

WARNING: ⚠INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

AVERTISSEMENT: ⚠IL INDIQU LES COMPOSANTS CRITIQUES DE SÛRETÉ. POUR MAINTENIR LE DEGRE DE SECURITE DE L'APPAREIL NE REMPLACER LES CONPOSANTS DONT LE FONCTIONNEMENT EST CRITIQUE POUR LA SECURITE QUE PAR DES PIECES RECOMMANDEES PAR LE FABRICANT

7) Fuse P.C Board A2010C1090 (AAL, JPN)


TLC-132-T
V-1
RED
⚠F1
⚠F2
⚠F3
⚠F4
⚠F5
POWER SUPPLY PCB
MAIN AMP(R) PCB
WHT
BLK
BRN
WHT
ORG
ORG
⚠T1
UC-U4T-10(JPN)
UC-U4T-20(AAL)
VLT (JPN)
YLW (AAL)
WHT 29.8 VAC
BLK
WHT 29.8 VAC
ORG 24.5 VAC
BRN
ORG 24.5 VAC
RED
⚠J901
AC OUTLETS
SWITCHED
UNSWITCHED
⚠
JPN
AC 100V 50/60Hz
AAL
AC 120V 60Hz
C901
⚠SW901
POWER
AKAI
A2010C1090

※

	AAL	JPN
F1	4A 125V	4A 250V
F2,3	5A 125V	5A 250V
F4,5	400mA 125V	400mA 250V

FUSE PCB A2010C1090

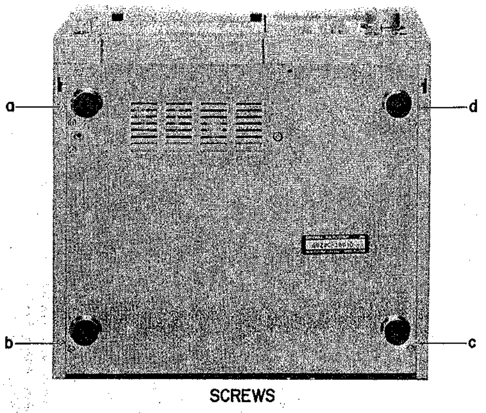
WARNING: ⚠INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

AVERTISSEMENT: ⚠IL INDIQU LES COMPOSANTS CRITIQUES DE SÛRETÉ. POUR MAINTENIR LE DEGRE DE SECURITE DE L'APPAREIL NE REMPLACER LES CONPOSANTS DONT LE FONCTIONNEMENT EST CRITIQUE POUR LA SECURITE QUE PAR DES PIECES RECOMMANDEES PAR LE FABRICANT

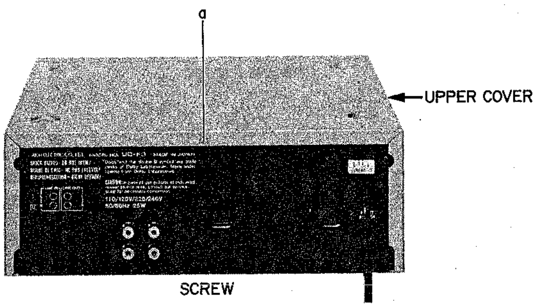
II. DISMANTLING OF UNIT

In case of trouble, etc. necessitating dismantling, please dismantle in the order shown in the photographs. Reassemble in reverse order.

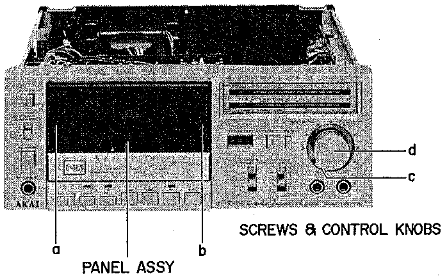
1


a
d
b
c
SCREWS

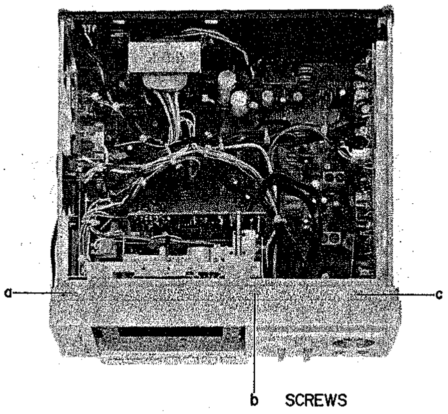
2


a
UPPER COVER
SCREW

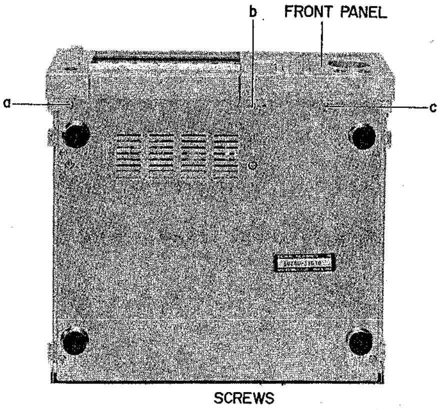
3


d
c
SCREWS & CONTROL KNOBS
a
b
PANEL ASSY

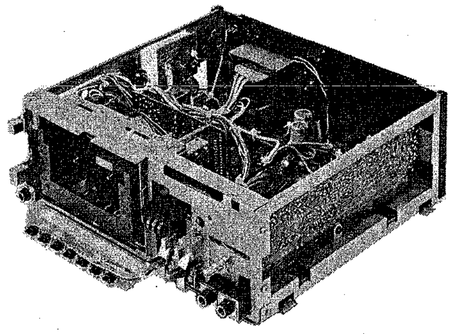
4



5


b
FRONT PANEL
a
c
SCREWS

6



III. CONTROLS

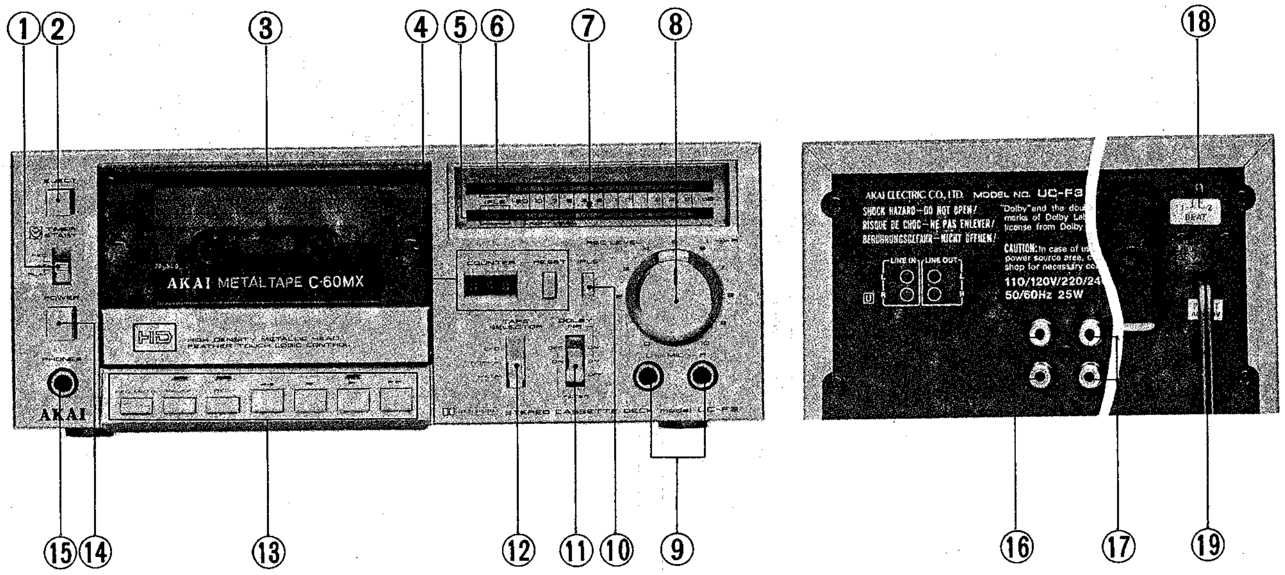

①
②
③
④
⑤
⑥
⑦
⑧
⑱
⑮
⑭
⑬
⑫
⑪
⑩
⑨
⑯
⑰
⑲
AKAI METALTAPE C-60MX
AKAI

Fig. 1 Controls

1. TIMER START SELECTOR
2. EJECT BUTTON
3. CASSETTE RECEPTACLE
4. TAPE COUNTER AND RESET BUTTON
5. IPLS INDICATOR
6. DOLBY NR INDICATOR
7. LED BAR METER
8. LEFT —◐— RIGHT RECORDING LEVEL CONTROLS
9. MICROPHONE JACKS
10. IPLS BUTTON
11. DOLBY NR AND FILTER SWITCH
12. TAPE SELECTOR
13. OPERATING BUTTONS
14. POWER SWITCH
15. HEADPHONE JACK
16. LINE IN JACKS
17. LINE OUT JACKS
18. BEAT CUT SELECTOR
19. AC CORD

IV. PRINCIPAL PARTS LOCATION

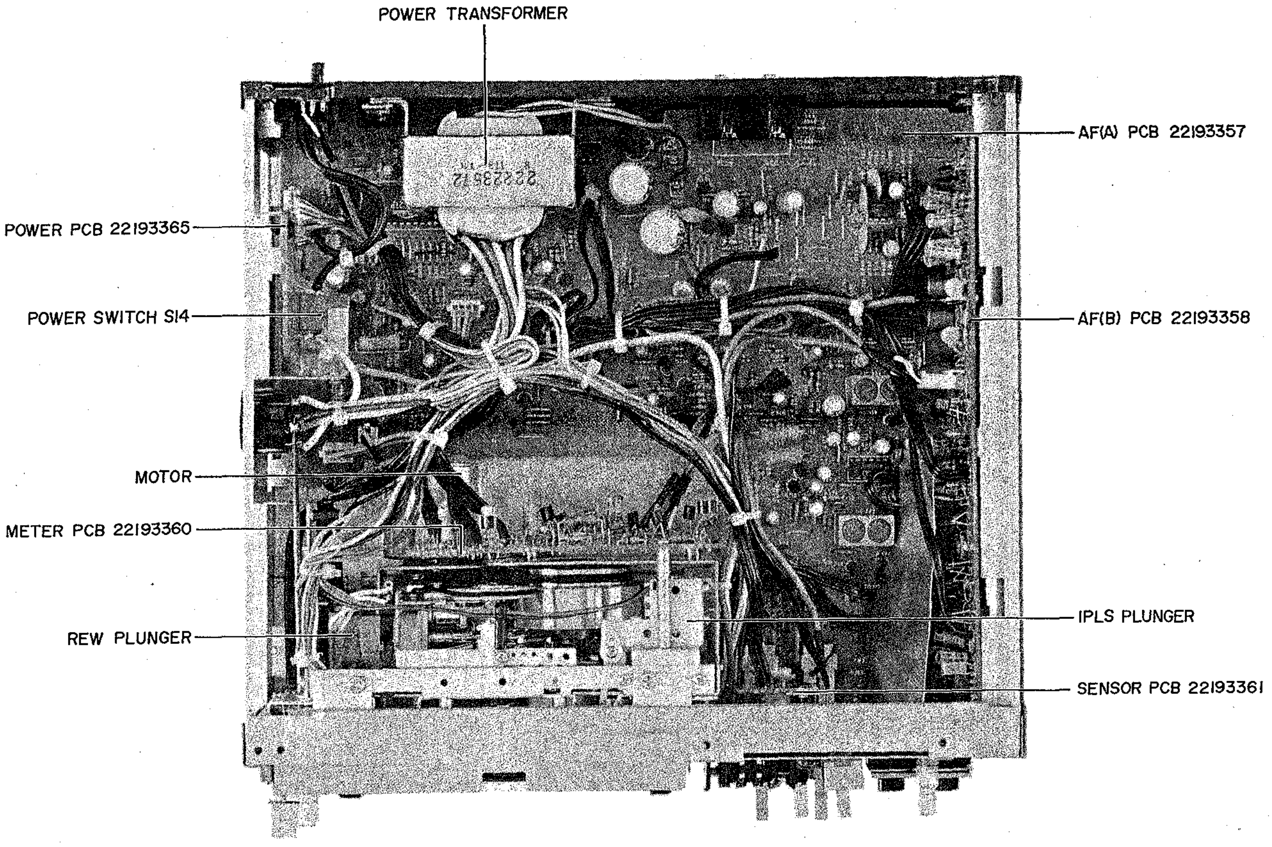

POWER TRANSFORMER
AF(A) PCB 22193357
POWER PCB 22193365
POWER SWITCH S14
AF(B) PCB 22193358
MOTOR
METER PCB 22193360
REW PLUNGER
IPLS PLUNGER
SENSOR PCB 22193361

Fig. 2 Top View

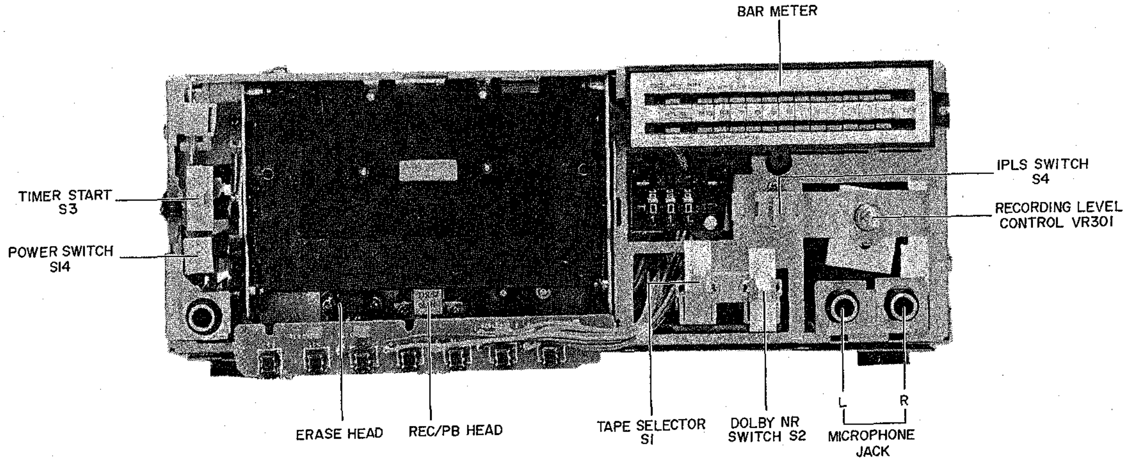

BAR METER
TIMER START
S3
POWER SWITCH
S14
IPLS SWITCH
S4
RECORDING LEVEL
CONTROL VR301
L
R
ERASE HEAD
REC/PB HEAD
TAPE SELECTOR
S1
DOLBY NR
SWITCH S2
MICROPHONE
JACK

Fig. 3 Front View

V. VOLTAGE AND CYCLE CONVERSION

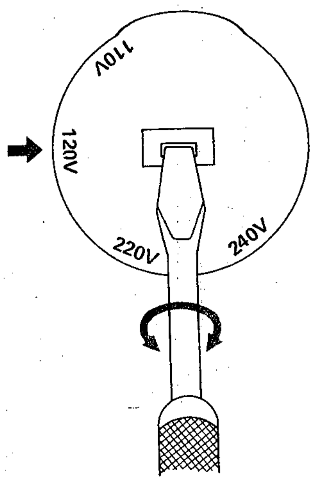


Fig. 4 Voltage Conversion (U/T Model)

1. VOLTAGE CONVERSION

Models for Canada, Europe, USA, UK, Australia and Japan are not equipped with this facility.

Each machine is preset at the factory according to destination, but some machines can be set to 110V, 120V, 220V or 240V as required.

If voltage change is necessary, this can be accomplished as follows:

1) Disconnect the power cord.
2) Loosen the holding screws and remove the Top panel.
3) Turn the Voltage selector until the arrow points to the correct voltage for your area. The Voltage selector is located on the left hand side when viewed from the front. Use a minus screwdriver.

2. CYCLE CONVERSION

With DC motor, cycle conversion is not necessary.

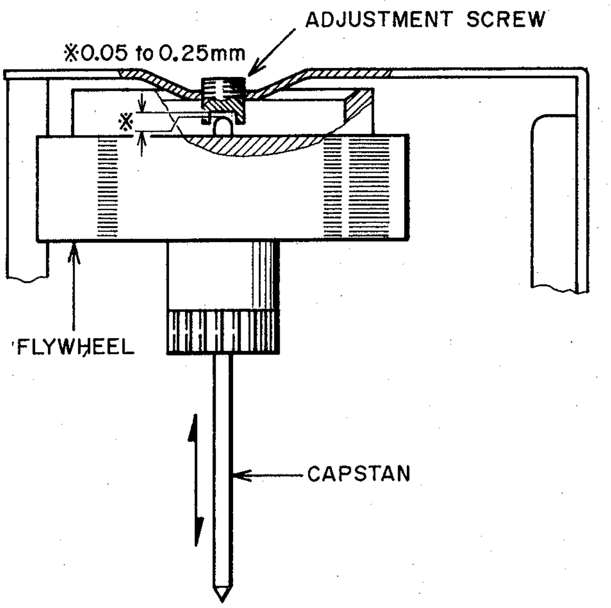

ADJUSTMENT SCREW
※0.05 to 0.25mm
※
FLYWHEEL
CAPSTAN

Fig. 5 Flywheel Loose Adjustment

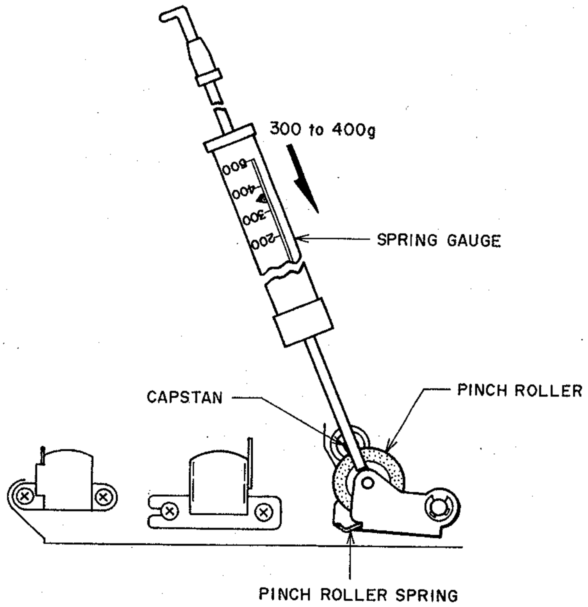

300 to 400g
SPRING GAUGE
CAPSTAN
PINCH ROLLER
PINCH ROLLER SPRING

Fig. 6 Pinch Roller Pressure Measurement

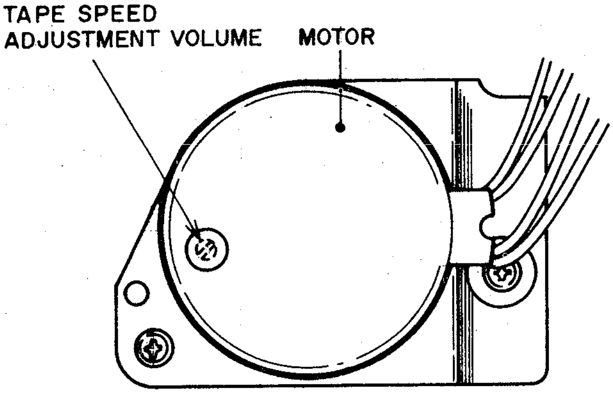

TAPE SPEED ADJUSTMENT VOLUME
MOTOR

Fig. 7 Tape Speed Adjustment

1. FLYWHEEL LOOSE PLAY ADJUSTMENT (Refer to Fig. 5)

Adjust by turning flywheel loose play adjustment screw to obtain a 0.05 to 0.25 mm of loose play when the flywheel is moved as indicated by the arrow mark. Paint lock the adjustment screw after adjustment.

2. WINDING TORQUE MEASUREMENT IN EACH MODE

Insert cassette torque meter and measure in each mode.

For fast forward and rewind measure at the end of the tape when the tape has stopped running. The specified torque is:

Playback :	40 to 70 g-cm
Fast Forward,Rewind :	60 to 130 g-cm
Back Tension :	1.5 to 5 g-cm

3. PINCH ROLLER PRESSURE MEASUREMENT (Refer to Fig. 6)

At Playback mode, push the pinch roller with a spring gauge until the pinch roller separates from the capstan by about 1 mm to 2 mm and then gently return. Take a reading of the spring gauge indication at the moment the pinch roller touches the capstan and begins to rotate.

Specified Pinch Roller Pressure : 250 to 350 grams

In case specified pressure cannot be attained, replace the pinch roller spring.

4. TAPE SPEED ADJUSTMENT (Refer to Fig. 7)

Connect the frequency counter to the line output terminals. Playback a 1,000 Hz pre-recorded test tape and adjust tape speed adjustment volume to obtain a tape speed of 1,000 Hz ± 1%.

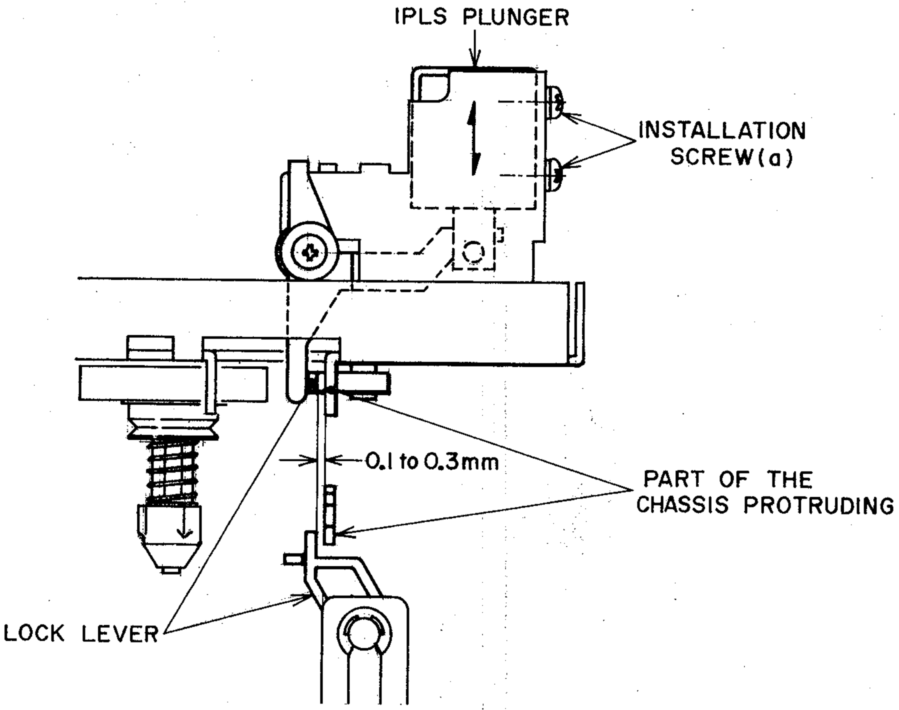

IPLS PLUNGER
INSTALLATION SCREW(a)
0.1 to 0.3mm
PART OF THE CHASSIS PROTRUDING
LOCK LEVER

Fig. 8 IPLS Plunger Installation Position Adjustment

5. IPLS (Instant Program Locating System) PLUNGER INSTALLATION POSITION ADJUSTMENT (Refer to Fig. 8)

Put in F.F mode to active the IPLS plunger. Adjust the position of IPLS plunger with installation screw (a), so that the distance between the part of the chassis protruding and lock lever is 0.1 to 0.3mm.
Paint lock the installation screw(a) after adjustment.

VII. HEAD ADJUSTMENT

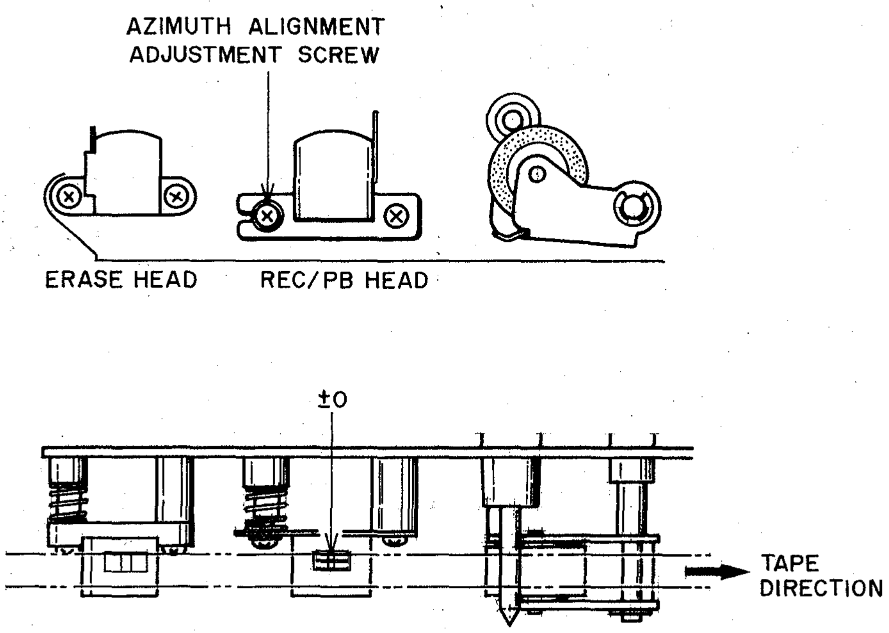

AZIMUTH ALIGNMENT ADJUSTMENT SCREW
ERASE HEAD
REC/PB HEAD
±0
TAPE DIRECTION

Fig. 9 Head Adjustment

a) Playback a 10 kHz pre-recorded cassette azimuth alignment test tape and adjust screw shown in Fig. 9 to obtain maximum output on both channels.

b) Invert cassette and confirm that the output level does not change from that obtained in Item a) above.
If the output level differs, adjust in the same way as in Item a) above until both sides of the test tape display equal output.

NOTES:

1. Be sure to clean the heads prior to head ajustment.
2. Be careful not to use a magnetized driver or other magnetized tools in the vicinity of the heads.
3. Be sure to demagnetize the heads with a Head Demagnetizer before and after head adjustment.

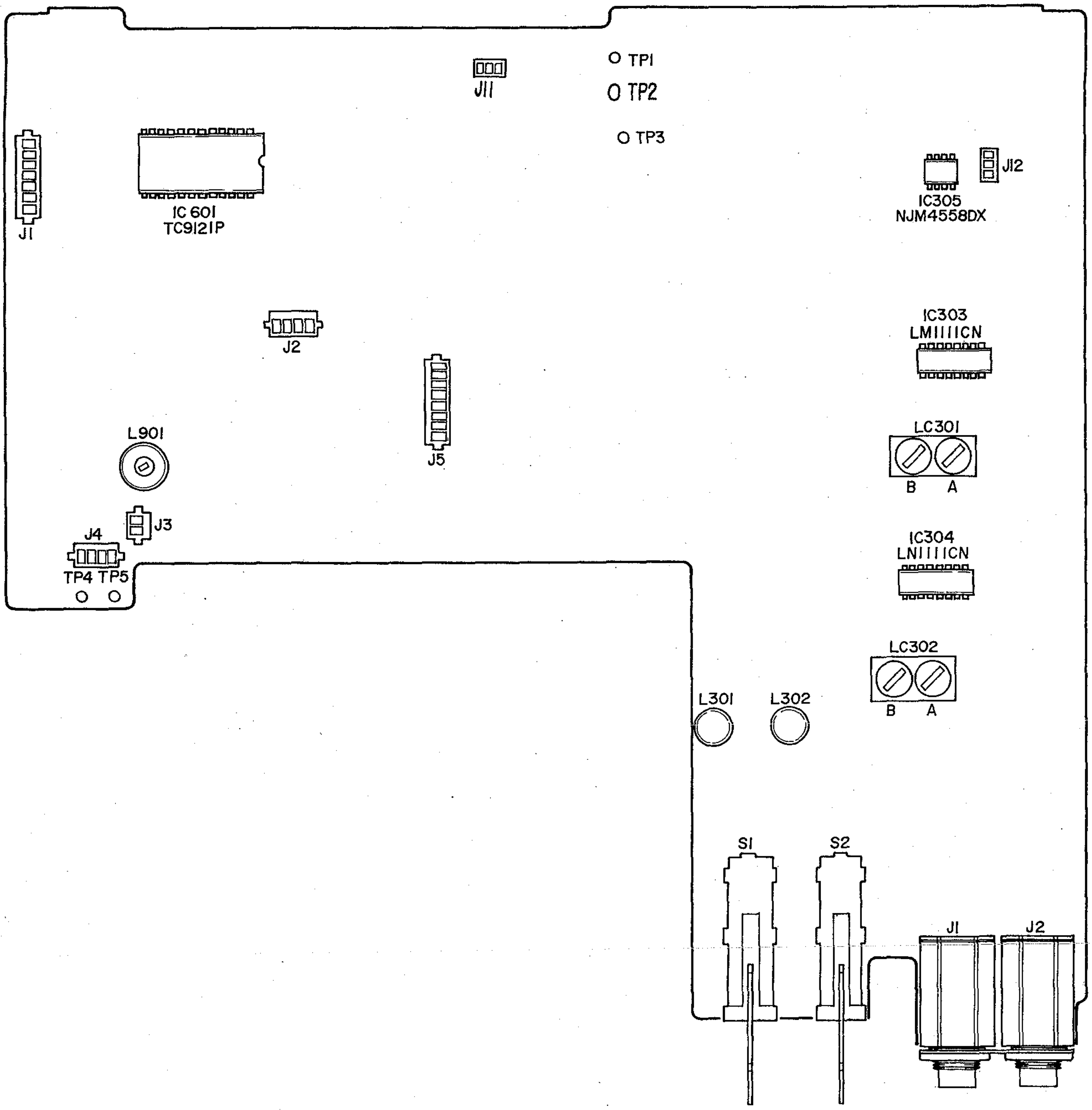

TP1
TP2
TP3
J11
J1
IC 601
TC9121P
J12
IC305
NJM4558DX
J2
IC303
LM1111CN
J5
L901
LC301
B
A
J3
J4
TP4 TP5
IC304
LN1111CN
LC302
B
A
L301
L302
S1
S2
J1
J2

Fig. 10 AF (A) P.C Board (Parts Side View)

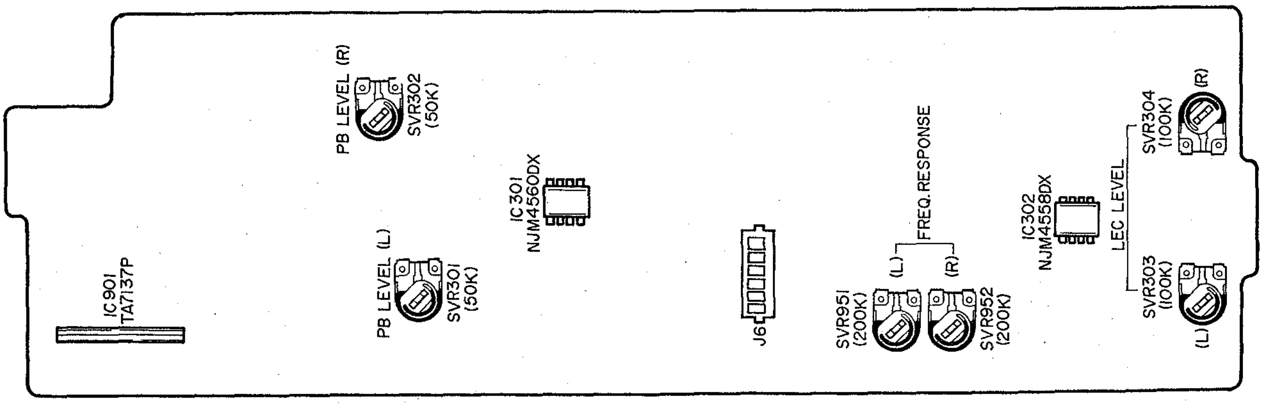

PB LEVEL (R)
SVR302
(50K)
IC301
NJM4560DX
PB LEVEL (L)
SVR301
(50K)
IC901
TA7137P
J6
FREQ. RESPONSE
(L)
(R)
SVR951
(200K)
SVR952
(200K)
IC302
NJM4558DX
LEC LEVEL
SVR304
(100K)
(R)
SVR303
(100K)
(L)

Fig. 11 AF (B) P.C Board (Parts Side View)

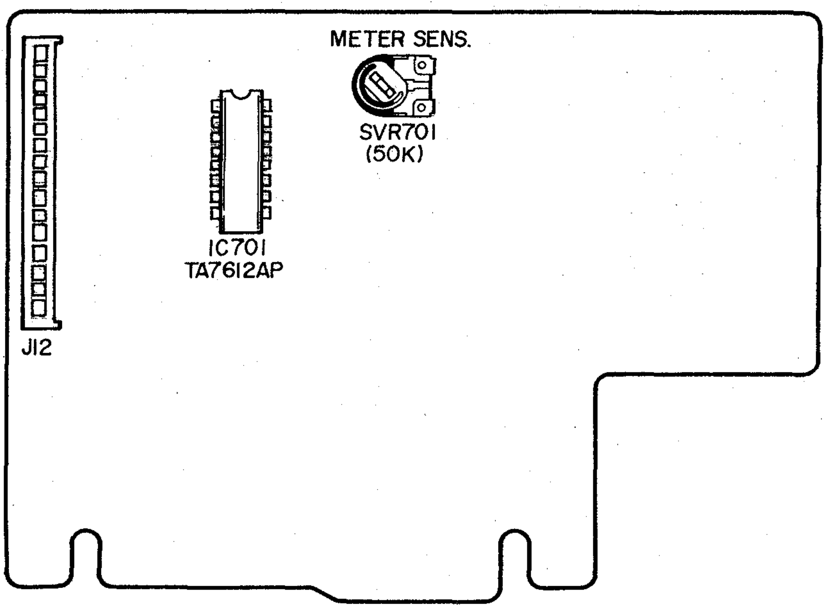


Fig. 12 Meter P.C Board (Parts Side View)

Step	Adjustment Item	Test Tape Supply Signal	Mode	Adjustment Point	Result	Remarks
1	Playback Level	333 Hz, 0 VU test tape	PB	SVR301 (50K) Left SVR302 (50K) Right	–6.6 ± 0.5 dBm (360 mV)	
2	Bar Meter Sensitivity	1,000 Hz –10 dBm (245 mV) from Oscillator	REC	SVR701 (50K)	0 VU indication	
3	Recording Level	CrO$_2$ Blank Tape (TDK SA C-60) 1,000 Hz –10 dBm (245 mV) Recording	REC /PB	SVR303 (100K) Left SVR304 (100K) Right	–6.6 ± 0.5 dBm (360 mV)	Set tape selector to CrO$_2$ Position
4	Frequency Response	CrO$_2$ Blank Tape 1,000 Hz –30 dBm (24 mV) Recording	REC /PB	SVR951 (200K) Left SVR952 (200K) Right	1,000 Hz to 10,000 Hz flat	Set tape selector to CrO$_2$ Position
5	Bias Filter	85 kHz from an oscillator	REC	LC301 (A) LC302 (A)	AC Voltmeter indicators to minimum.	NOTE 5
6	19 kHz Filter	19 kHz from an oscillator	REC	LC301 (B) LC301 (B)	AC Voltmeter indicators to minimum	NOTE 4, 5

NOTES:
1. Dolby NR Switch to OFF Position.
2. Except for Step 6, set MPX Filter Switch to OFF Position.
3. Because each of these adjustments is vital to perfect Dolby NR circuit operation, ensure that they are carried out with as few errors as possible.
4. Adjust the oscillator's frequency to give a frequency counter reading of 19.00 kHz.
5. Unless the core is moved unintentionally this adjustment is not necessary.

IX. CLASSIFICATION OF VARIOUS P.C BOARD

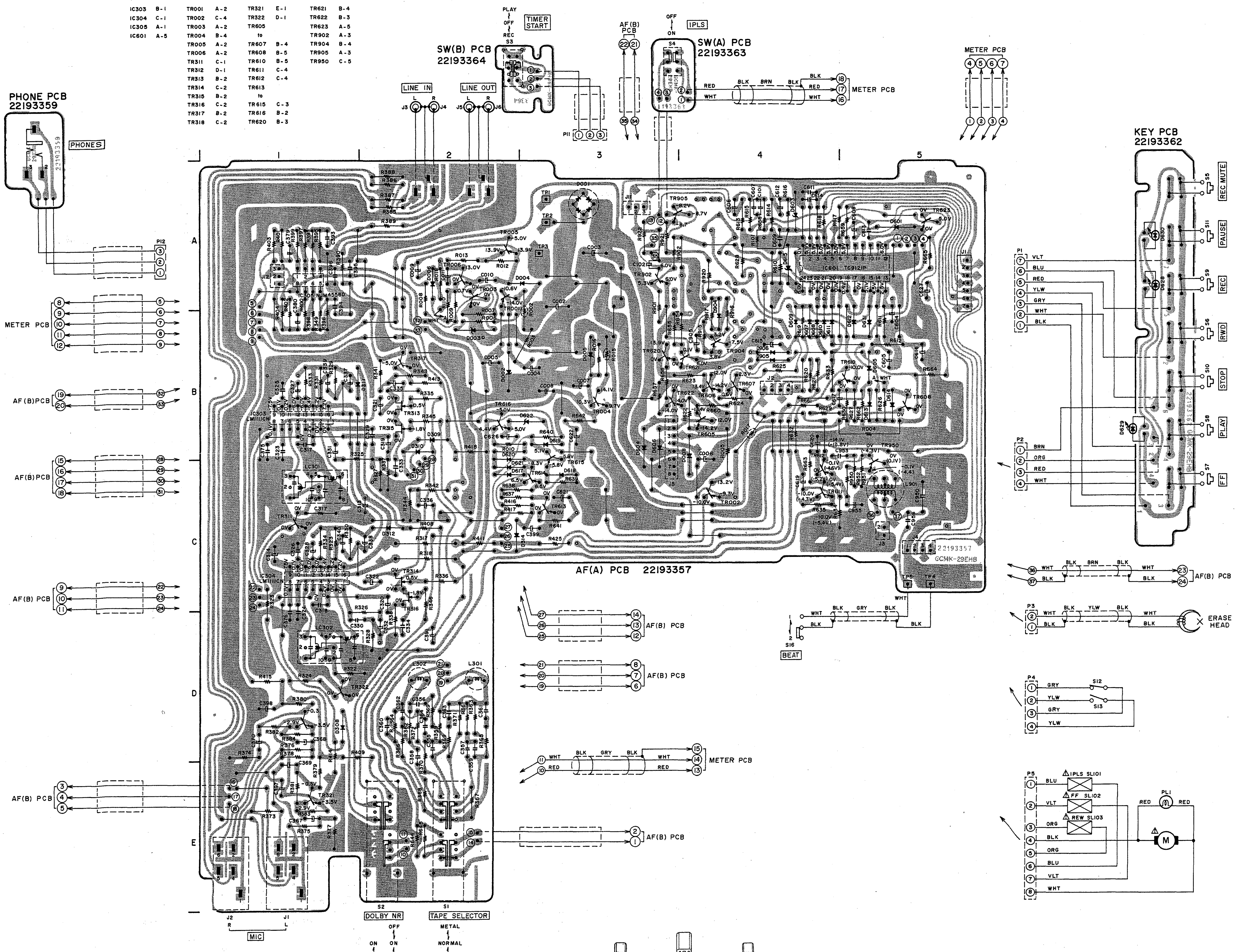
1. P.C BOARD TITLES AND INDENTIFICATION NUMBERS

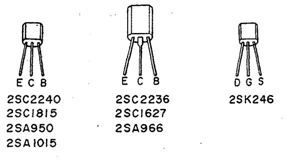
P.C Board Title	P.C Board Number
AF (A) P.C Board	22193357
AF (B) P.C Board	22193358
Phone P.C Board	22193359
Meter P.C Board	22193360
Sensor P.C Board	22193361
Key P.C Board	22193362
SW (A) P.C Board	22193363
SW (B) P.C Board	22193364
Power P.C Board	22193365

2. COMPOSITION OF VARIOUS P.C BOARDS

1) AF (A) P.C Board (22193357), Key P.C Board (22193362), SW (A) P.C Board (22193363), SW (B) P.C Board (22193364), PHONE P.C Board (22193359)

IC303	B-1	TR001	A-2	TR321	E-1	TR621	B-4
IC304	C-1	TR002	C-4	TR322	D-1	TR622	B-3
IC305	A-1	TR003	A-2	TR605		TR623	A-5
IC601	A-5	TR004	B-4	to		TR902	A-3
		TR005	A-2	TR607	B-4	TR904	B-4
		TR006	A-2	TR608	B-5	TR905	A-3
		TR311	C-1	TR610	B-5	TR950	C-5
		TR312	D-1	TR611	C-4		
		TR313	B-2	TR612	C-4		
		TR314	C-2	TR613			
		TR315	B-2	to			
		TR316	C-2	TR615	C-3		
		TR317	B-2	TR616	B-2		
		TR318	C-2	TR620	B-3		


PHONE PCB
22193359
PHONES
SW(B) PCB
22193364
PLAY
OFF
REC
TIMER START
S3
LINE IN
LINE OUT
J3
J4
J5
J6
L
R
AF(B) PCB
OFF
ON
IPLS
S4
SW(A) PCB
22193363
RED
WHT
BLK
BRN
METER PCB
P11
KEY PCB
22193362
REC MUTE
PAUSE
REC
RWD
STOP
PLAY
FF
S5
S11
S9
S6
S10
S8
S7
P1
VLT
BLU
RED
YLW
GRY
WHT
BLK
P2
BRN
ORG
P12
METER PCB
AF(B)PCB
AF(B) PCB
1
2
3
4
5
A
B
C
D
E
IC601 TC9121P
IC303
IC304
LC301
LC302
AF(A) PCB 22193357
22193357
GC14K-29EHB
S16
BEAT
P3
ERASE HEAD
P4
S12
S13
P5
IPLS SL101
FF SL102
REW SL103
PL1
M
J2
J1
MIC
S2
DOLBY NR
OFF
ON
FILTER
S1
TAPE SELECTOR
METAL
NORMAL
CrO2

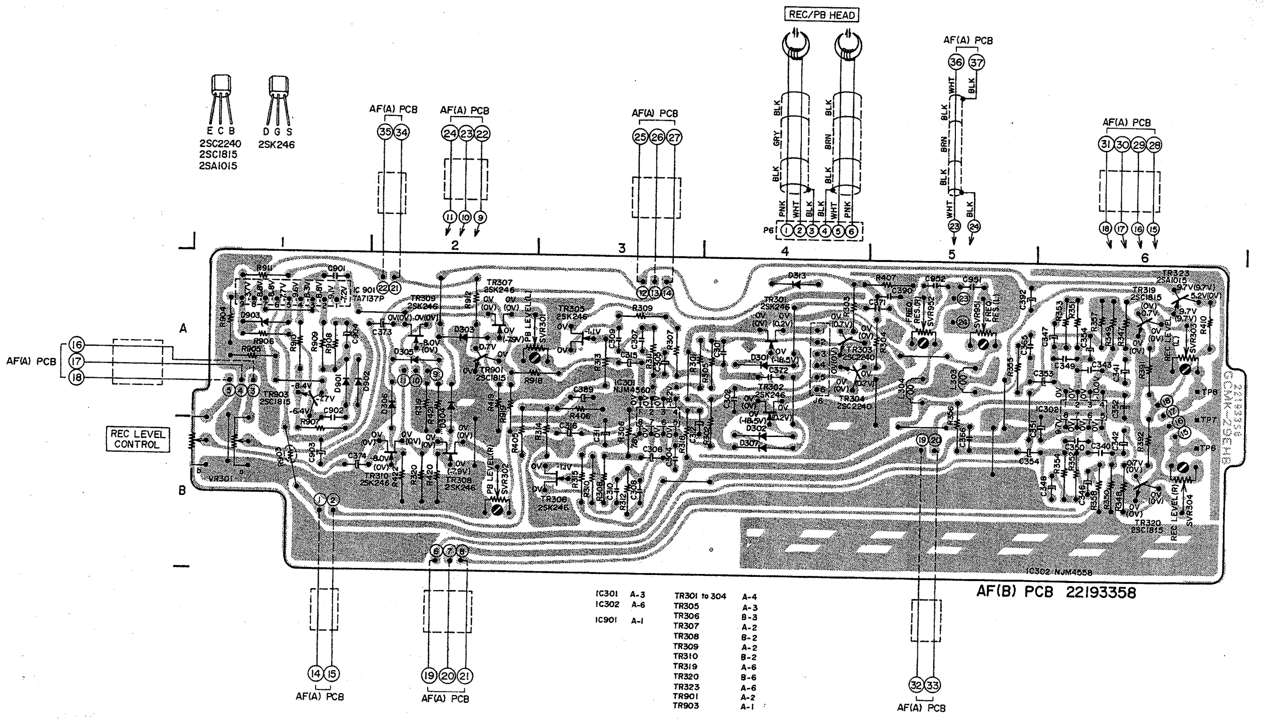

E C B
2SC2240
2SC1815
2SA950
2SA1015
E C B
2SC2236
2SC1627
2SA966
D G S
2SK246

TR001 ---------------- 2SA966
TR002 ---------------- 2SA950
TR003, 006, 311, 317, 318, 611
613, 616, 621, 623, 905 --- 2SC1815
TR004, 950 ------------- 2SC2236
TR005 ---------------- 2SC1015
TR313 to 316 ------------- 2SK246
TR321, 322 ------------- 2SC2240
TR605, 607, 622 ----------- 2SC1627
TR606, 608, 610, 612, 614, 615
620, 902, 904 --- 2SA1015

WARNING: ⚠INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

AVERTISSEMENT: ⚠IL INDIQU LES COMPOSANTS CRITIQUES DE SÛRETÉ. POUR MAINTENIR LE DEGRE DE SECURITE DE L'APPAREIL NE REMPLACER LES CONPOSANTS DONT LE FONCTIONNEMENT EST CRITIQUE POUR LA SECURITE QUE PAR DES PIECES RECOMMANDEES PAR LE FABRICANT

2) AF (B) P.C Board (22193358)

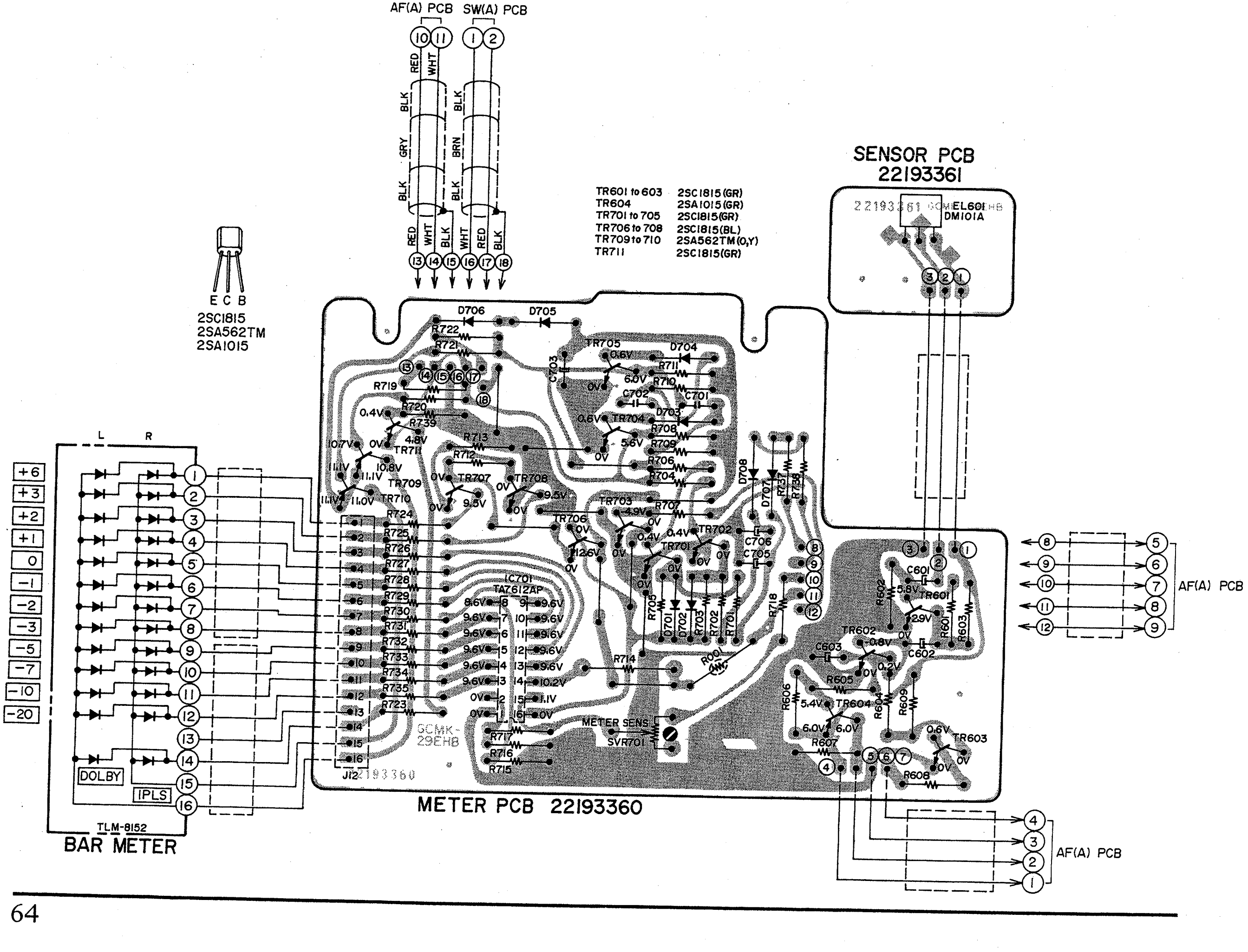


REC/PB HEAD
AF(A) PCB
E C B
2SC2240
2SC1815
2SA1015
D G S
2SK246
REC LEVEL CONTROL
A
B
1
2
3
4
5
6
IC901 TA7137P
TR301 2SK246
TR303 2SC2240
TR304 2SC2240
TR305 2SK246
TR306 2SK246
TR307 2SK246
TR308 2SK246
TR309 2SK246
TR310 2SK246
TR319 2SC1815
TR320 2SC1815
TR323 2SA1015
TR901 2SC1815
TR903 2SC1815
IC301 NJM4560
IC302 NJM4558
SVR301
SVR302
SVR303
SVR304
SVR951
SVR952
VR301
PB LEVEL(L)
PB LEVEL(R)
REC LEVEL
REC LEVEL(R)
TP6
TP7
TP8
PNK
WHT
BLK
GRY
BRN
P6
GCMK-29EHB
22193358
AF(B) PCB 22193358

IC301	A-3
IC302	A-6
IC901	A-1

TR301 to 304	A-4
TR305	A-3
TR306	B-3
TR307	A-2
TR308	B-2
TR309	A-2
TR310	B-2
TR319	A-6
TR320	B-6
TR323	A-6
TR901	A-2
TR903	A-1

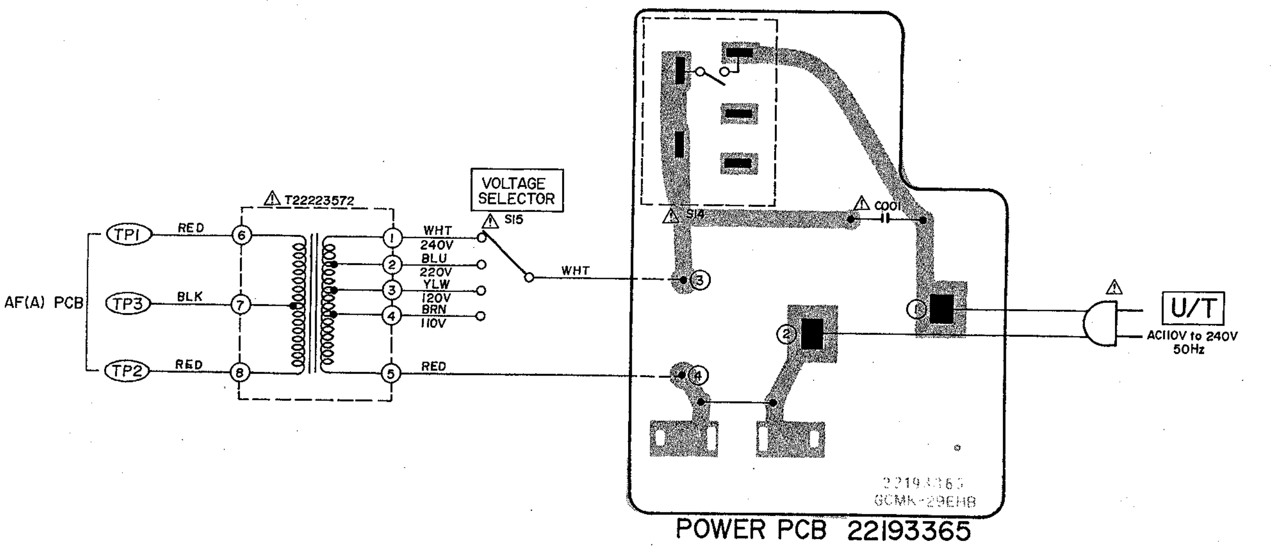
3) Meter P.C Board (22193360), Sensor P.C Board (22193361)



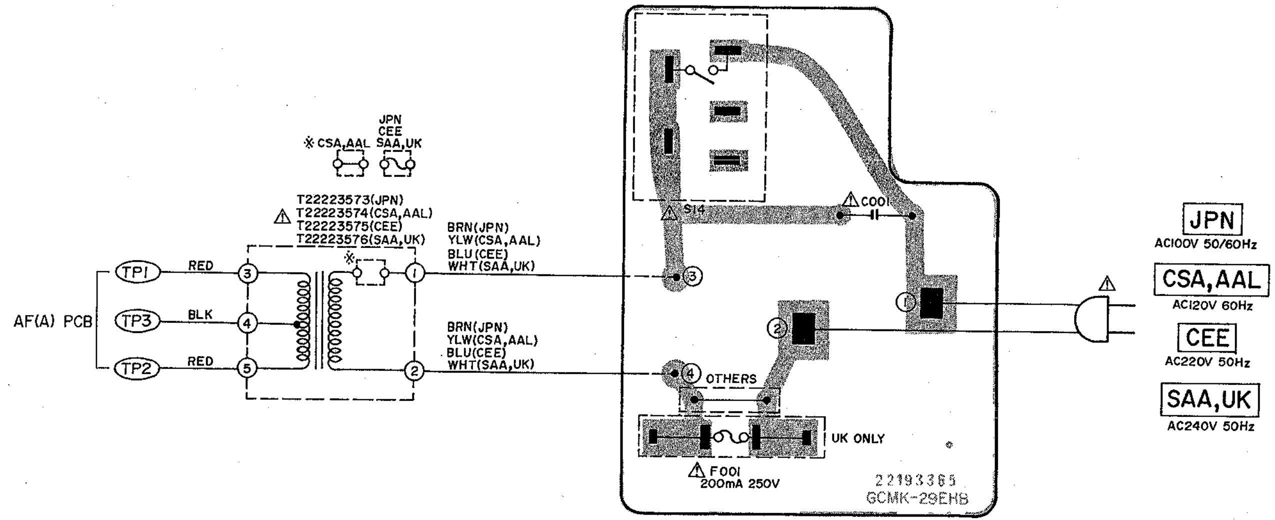
AF(A) PCB
SW(A) PCB
RED
WHT
BLK
GRY
BRN
E C B
2SC1815
2SA562TM
2SA1015
SENSOR PCB
22193361
EL601
DM101A
L
R
+6
+3
+2
+1
0
-1
-2
-3
-5
-7
-10
-20
DOLBY
IPLS
TLM-8152
BAR METER
IC701
TA7612AP
METER SENS
SVR701
J12
GCMK-29EHB
22193360
METER PCB 22193360

TR601 to 603	2SC1815(GR)
TR604	2SA1015(GR)
TR701 to 705	2SC1815(GR)
TR706 to 708	2SC1815(BL)
TR709 to 710	2SA562TM(O,Y)
TR711	2SC1815(GR)

4) Power P.C Board (22193365)


T22223572
VOLTAGE SELECTOR
S15
AF(A) PCB
TP1
TP3
TP2
RED
BLK
RED
6
7
8
1
2
3
4
5
WHT
240V
BLU
220V
YLW
120V
BRN
110V
RED
WHT
S14
C001
U/T
AC110V to 240V
50Hz
22193365
GCMK-29EHB

POWER PCB 22193365


JPN
CEE
SAA,UK
※CSA,AAL
T22223573(JPN)
T22223574(CSA,AAL)
T22223575(CEE)
T22223576(SAA,UK)
※
AF(A) PCB
TP1
TP3
TP2
RED
BLK
RED
3
4
5
1
2
BRN(JPN)
YLW(CSA,AAL)
BLU(CEE)
WHT(SAA,UK)
BRN(JPN)
YLW(CSA,AAL)
BLU(CEE)
WHT(SAA,UK)
S14
C001
OTHERS
UK ONLY
F001
200mA 250V
22193365
GCMK-29EHB
JPN
AC100V 50/60Hz
CSA,AAL
AC120V 60Hz
CEE
AC220V 50Hz
SAA,UK
AC240V 50Hz

POWER PCB 22193365

WARNING: ⚠INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

AVERTISSEMENT: ⚠IL INDIQU LES COMPOSANTS CRITIQUES DE SÛRETÉ. POUR MAINTENIR LE DEGRE DE SECURITE DE L'APPAREIL NE REMPLACER LES CONPOSANTS DONT LE FONCTIONNEMENT EST CRITIQUE POUR LA SECURITE QUE PAR DES PIECES RECOMMANDEES PAR LE FABRICANT

—MEMO—

—MEMO—

—MEMO—

－MEMO－

−MEMO−

SECTION 5

PARTS LIST

TABLE OF CONTENTS

I. MODEL UC-K3/L 73
  1. RECOMMENDED SPARE PARTS 73
  2. GROUP P.C BOARD BLOCK 74
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  4. LED P.C BOARD BLOCK 74
  5. MUTE P.C BOARD BLOCK (EXCEPT JPN MODEL) 74
  6. COUNTER P.C BOARD BLOCK 74
  7. CAL TONE P.C BOARD BLOCK (JPN MODEL ONLY) 74
  8. ASSEMBLY BLOCK 75
  9. FINAL ASSEMBLY BLOCK 76
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III. MODEL UC-U3 80
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  4. CONTROL P.C BOARD BLOCK 81
  5. FUNCTION P.C BOARD BLOCK 81
  6. POWER SUPPLY P.C BOARD BLOCK 81
  7. ASSEMBLY BLOCK 82
  8. FINAL ASSEMBLY BLOCK 84
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  1. RECOMMENDED SPARE PARTS 85
  2. MAIN AMP (R) P.C BOARD BLOCK 86
  3. MAIN AMP (L) P.C BOARD BLOCK 86
  4. CONTROL P.C BOARD BLOCK 86
  5. FUNCTION P.C BOARD BLOCK 86
  6. INPUT P.C BOARD BLOCK 86
  7. POWER SUPPLY P.C BOARD BLOCK 86
  8. ASSEMBLY BLOCK 87
  9. FINAL ASSEMBLY BLOCK 88
V. MODEL UC-F3 89
  1. RECOMMENDED SPARE PARTS 89
  2. AF P.C BOARD BLOCK 90
  3. AF (B) P.C BOARD BLOCK 90
  4. METER P.C BOARD BLOCK 90
  5. KEY P.C BOARD BLOCK 91
  6. SW (A) P.C BOARD BLOCK 91
  7. SW (B) P.C BOARD BLOCK 91
  8. PHONE P.C BOARD BLOCK 91
  9. SENSOR P.C BOARD BLOCK 91
  10. POWER P.C BOARD BLOCK 91
  11. MECHA ASSEMBLY BLOCK 92
  12. ASSEMBLY BLOCK 94
  13. FINAL ASSEMBLY BLOCK 96

Registor and Capacitor which is not listed in this parts list, please refer to COMMON LIST FOR SERVICE PARTS.

HOW TO USE THIS PARTS LIST

1. This parts list is compiled by various individual blocks based on assembly process.
2. When ordering parts, please describe parts number, serial number, and model number in detail.
3. How to read list.

The reference number corresponds with illustration or photo number of that particular parts list.

This number corresponds with the Figure Number.

This number corresponds with the individual parts' index number in that figure.

A small "x" indicates the inability to show that particular part in the Photo or Illustration.

12-115x

Ref. No.	Parts No.	Description
		FLYWHEEL BLOCK #13
12-115x	800425	Flywheel Block Assy. Comp.
12-116	244506	Flywheel Only
12-117x	244754	Felt, Flywheel
12-118	251324	Main Metal Case
12-119	253080	Main Metal

4. The symbol numbers shown on the P.C. Board list can be matched with the Composite Views of components of the Schematic Diagram or Service Manual.
5. The indications of Resistors and Capacitors in the photos of P.C. Board are being eliminated.
6. The shape of the parts and parts name, etc. can be confirmed by comparing them with the parts shown on the Electrical Parts Table of P.C. Board.
7. Both the kind of part and installation position can be determined by the Parts Number. To determine where a parts number is listed, utilize Parts Index at end of Parts List.
   It is necessary first of all to find the Parts Number. This can be accomplished by using the Reference Number listed at right of parts number in the Parts Index. (meaning of ref. no. outlined in Item 3 above).
8. Utilize separate "Price List for Parts" to determine unit price. The most simple method of finding parts Price is to utilize the reference number.

CAUTION:

1. When placing an order for parts, be sure to list the parts no. model no., and description. There are instances in which if any of this information is omitted, parts cannot be shipped or the wrong parts will be delivered.
2. Please be careful not to make a mistake in the parts no. If the parts no. is in error, a part different from the one ordered may be delivered.
3. Because parts number and parts unit supply in the Preliminary Service Manual (Basic Parts List) may be partially changed, please use this parts list for all future reference.

WARNING: ⚠ INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMEMNDED PARTS.

AVERTISSEMENT: ⚠ IL INDIQU LES COMPOSANTS CRITIQUES DE SURETE. POUR MAINTENIR LE DEGRE DE SECURITE DE L'APPAREIL NE REMPLACER LES COMPOSANTS DONT LE FONCTIONNEMENT EST CRITIQUE POUR LA SECURITE QUE PAR DES PIECES RECOMMANDEES PAR LE FABRICANT.

I. MODEL UC-K3/J/L

1. RECOMMENDED SPARE PARTS

Because, if the parts listed below are on hand, almost any repair can be accomplished, we suggest that you stock these Recommended Spare Parts Items.

REF. NO.	PARTS NO.	DESCRIPTION	NOTES
1-1	BT312344	⚠TRANS POWER UC-K3T-10	(JPN)
1-2	BT312350	⚠TRANS POWER UC-K3T-30	(CSA, AAL)
1-3	BT312391	⚠TRANS POWER UC-K3T-40	(CEE)
1-4	BT312392	⚠TRANS POWER UC-K3T-50	(UK, SAA)
1-5	BT312393	⚠TRANS POWER UC-K3T-70	(U/T)
1-6	EC616342	C S-FIX H CTY122D33 1.5–16	
1-7	ED322247	D LED SLP-151D RED	
1-8	ED322184	D LED SLP-152D RED	
1-9	ED322215	D LED SLP-251D GRN	
1-10	ED200469	D SILICON H DS448 FA1 F10	
1-11	ED322238	D SILICON 1B4B41 100/1.0A	
1-12	ED224526	D SILICON 10D1 100/1.0A	
1-13	ED313284	D ZENER H WZ-036	
1-14	ED323216	D ZENER H 05Z15 U	
1-15	ED322774	D ZENER H 05Z5.1 U	
1-16	ED325080	D ZENER H 05Z9.1 L	
1-17	EE313160	ANT BAR UC-K3 LW	
1-18	EE312738	ANT BAR UC-K3 MW	
1-19	EE312528	FRONT END FF134J14 75–91MHz	(JPN)
1-20	EE312527	FRONT END FF136U14 87–108MHz	(U/T, CSA, CEE, UK, SAA)
1-21	EF300590	⚠ FUSE EAWK T 250V 0.40A	(F1) (CEE, UK, SAA)
1-22	EF308933	⚠ FUSE TSC A 250V 0.20A	(F2,3) (U/T)
1-23	EF309389	⚠ FUSE TSC A 250V 0.40A	(F1) (U/T)
1-24	EF308848	⚠ FUSE TSC 125V 0.40A	(F1) (CSA, AAL)
1-25	EI312443	IC KB4438	
1-26	EI322248	IC LA1231N	
1-27	EI293185	IC LA1240	
1-28	EI650597	IC LA3350S	
1-29	EI315491	IC LB1405S	
1-30	EI328850	IC LC7259	
1-31	EI328849	IC M54459L	
1-32	EI323231	OSC X'TAL 4MHz	
1-33	EJ301513	⚠ SOCKET INLET S-I6453 E 2P	(CEE, UK, SAA)
1-34	EM328848	IND LE SL-1713W CHARACTER	
1-35	ER307204	FILTER CE CFMA-008 0.468MHz	
1-36	ER307201	FILTER CE SFE10.7MM-Z 10.7MHz	
1-37	ER328855	FILTER LC LP 12A1251 AKAI	
1-38	ES315159	⚠ SW PUSH SDG1P 01-1 J	(JPN)
1-39	ES310839	⚠ SW PUSH SDG1P-E 01-1 E	(U/T, CEE, UK, SAA)
1-40	ES665875	⚠ SW PUSH SDG1P-J 01-1 UC	(CSA, ALL)
1-41	ES312415	SW PUSH SUF33 3 THROW	
1-42	ES312416	SW PUSH SUF33 3 THROW	
1-43	ES312427	SW PUSH SUF33 3 THROW	
1-44	ET323232	TR FET 2SK19 Y	
1-45	ET316171	TR 2SC536K-NP E,F	
1-46	ET316643	TR 2SC536K-NP F,G	
1-47	ET618873	TR 2SC930 E,F	
1-48	ET452531	TR 2SD313 E,F	
1-49	EV321635	R S-FIX H D8 3P 102	
1-50	EV322416	R S-FIX H D8 3P 303	
1-51	EV321682	R S-FIX H D8 3P 501	
1-52	EV427858	R S-FIX H SR19R 3P 0.15W 472	
1-53	EV315416	R S-FIX H D8 3P 103	

2. GROUP P.C BOARD BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
2-1	BAA3014A030A	GROUP PC BLK UC-K3(U)
2-2	BAA3014A030B	GROUP PC BLK UC-K3(J)
2-3	BAA3014A030C	GROUP PC BLK UC-K3(C) (CSA, AAL)
2-4	BAA3014A030D	GROUP PC BLK UC-K3 (E) (CEE, SAA)
2-5	BAA3014A030E	GROUP PC BLK UC-K3L

Note: Ref. No. 2-1 to 2-5 Group PC BLK included the following P.C Board Blocks and supplied as a set.

3. Tuner PC BLK
4. LED PC BLK
5. Mute PC BLK (Except JPN Model)
6. Counter PC BLK
7. Cal Tone PC BLK (JPN Model Only)

3. TUNER P.C BOARD BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
3-1	EE312527	FRONT END FF136U14 87–108MHz (U/T, CSA, AAL, CEE, UK, SAA)
3-2	EE312528	FRONT END FF134J14 75–91MHz (JPN)
3-IC1	EI322248	IC LA1231N
3-IC2	EI650597	IC LA3350S
3-IC3	EI312443	IC KB4438
3-IC4	EI293185	IC LA1240
3-TR1	ET618873	TR 2SC930 E, F
3-TR2 to 9	ET316643	TR 2SC536K-NP F,G
3-TR10	ET323232	TR FET 2SK19 Y
3-TR11	ET452531	⚠ TR 2SD313 E, F
3-D1 to 8	ED200469	D SILICON H DS448 FA1 F10
3-D9	ED313284	D ZENER H WZ-036
3-D10	ED200469	D SILICON H DS448 FA1 F10
3-D11	ED322238	⚠ D SILICON 1B4B41 100/1.0A
3-D12	ED323216	⚠ D ZENER H 05Z15 U
3-D13	ED224526	⚠ D SILICON 10D1 100/1.0A
3-J1	EJ202214	PIN J T-5753 P 2P
3-SW1	ES312415	SW PUSH SUF33 3 THROW (U/T, CSA, AAL, CEE, SAA)
3-SW1	ES312416	SW PUSH SUF33 3 THROW (JPN)
3-SW1	ES312427	SW PUSH SUF33 3 THROW(L)
3-VR1,2	EV322416	R S-FIX H D8 3P 303
3-VR3	EV427858	R S-FIX H SR19R 3P 0.15W 472
3-VR4	EV321682	R S-FIX H D8 3P 501
3-L1, 2	EO328137	COIL FIX 2 NI-0036 2.2μH
3-L3	EO304650	COIL FIX 1 FL05H 33μH K (L)
3-T1	EO328854	COIL DET2 Q228CEL-1098R
3-T2	ER293398	COIL IFT RMC-42246BCH 468KHz
3-T3	ER307204	FILTER CE CFMA-008 0.468MHz
3-T4	ER293398	COIL IFT RMC-42246BCH 468KHz (L)
3-T5	EO307186	COIL OSC 2 RWR-43208N 160μH
3-T6	EO322240	COIL VARI 2 RZN-43914N (L)
3-T7	EO201252	COIL OSC2 RNR-44498N 600μH (L)
3-FL1,2	ER307201	FILTER CE SFE10.7MM–Z 10.7MHz
3-FL3,4	ER328855	FILTER LC LP 12A1251 AKAI
3-VC1,2	EC616342	C S-FIX H CTY122D33 1.5–16
3-VC3,4	EC616342	C S-FIX H CTY 122D33 1.5–16 (L)
3-R7,8	ER324337	⚠ R CB H SNP FS RDS 1/4W 560J
3-R13,14	ER324337	⚠ R CB H SNP FS RDS 1/4W 560J
3-R31,32	ER324337	⚠ R CB H SNP FS RDS 1/4W 560J
3-R44,45	ER324337	⚠ R CB H SNP FS RDS 1/4W 560J
3-R63,64	ER324480	⚠ R CB H SNP FS RDS 1/4W 470J
3-R65,66	ER324337	⚠ R CB H SNP FS RDS 1/4W 560J
3-R73,74	ER324337	⚠ R CB H SNP FS RDS 1/4W 560J
3-C33	EC328862	C STY V F05 CQF09 152J 50DC
3-C39	EC323073	C STY V F05 CQF09 202J 50DC (U/T, JPN, CEE, UK, SAA)
3-C39	EC322983	C STY V F05 CQF09 302J 50DC (CSA, AAL)
3-C40	EC323073	C STY V F05 CQF09 202J 50DC (U/T, JPN, CEE, UK, SAA)
3-C40	EC322983	C STY V F05 CQF09 302J 50DC (JPN)
3-C42,43	EC324109	C STY V SNP CQFS 181J 50DC
3-C70,71	EC320548	C CE V F 103Z 250AC
3-C73	EC320548	C CE V F 103Z 250AC
3-C75	EC314996	C STY V SNP CQFS 391J 50DC
3-C99	EC201253	C STY V F05 CQF09 161J 50DC (L)

4. LED P.C BOARD BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
4-IC1	EI315491	IC LB1405S
4-D1	ED322247	D LED SLP-151D RED
4-D2	ED322215	D LED SLP-251D GRN
4-D3	ED322184	D LED SLP-152D RED

5. MUTE P.C BOARD BLOCK
(Except JPN Model)

REF. NO.	PARTS NO.	DESCRIPTION
5-TR1	ET316643	TR 2SC536K-NP F,G
5-D1 to 6	ED200469	D SILICON H DS448 FA1 F10
5-D7	ED325080	D ZENER H 05Z9.1 L
5-D8,9	ED200469	D SILICON H DS448 FA1 F10
5-D10	ED200469	D SILICON H DS448 FA1 F10 (L)

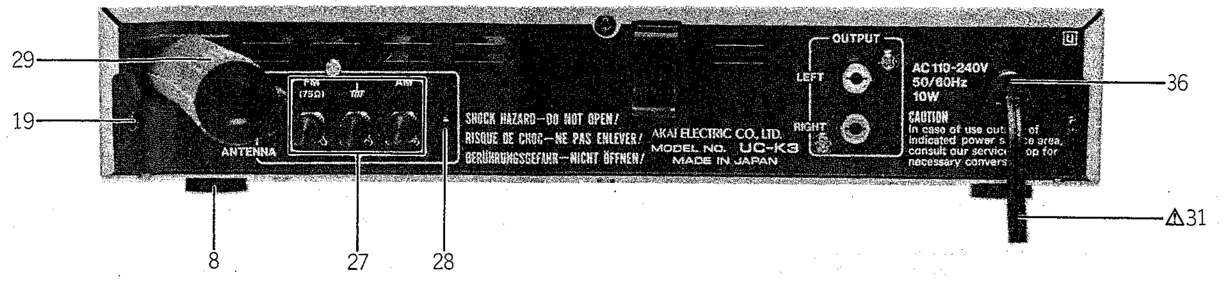
6. COUNTER P.C BOARD BLOCK

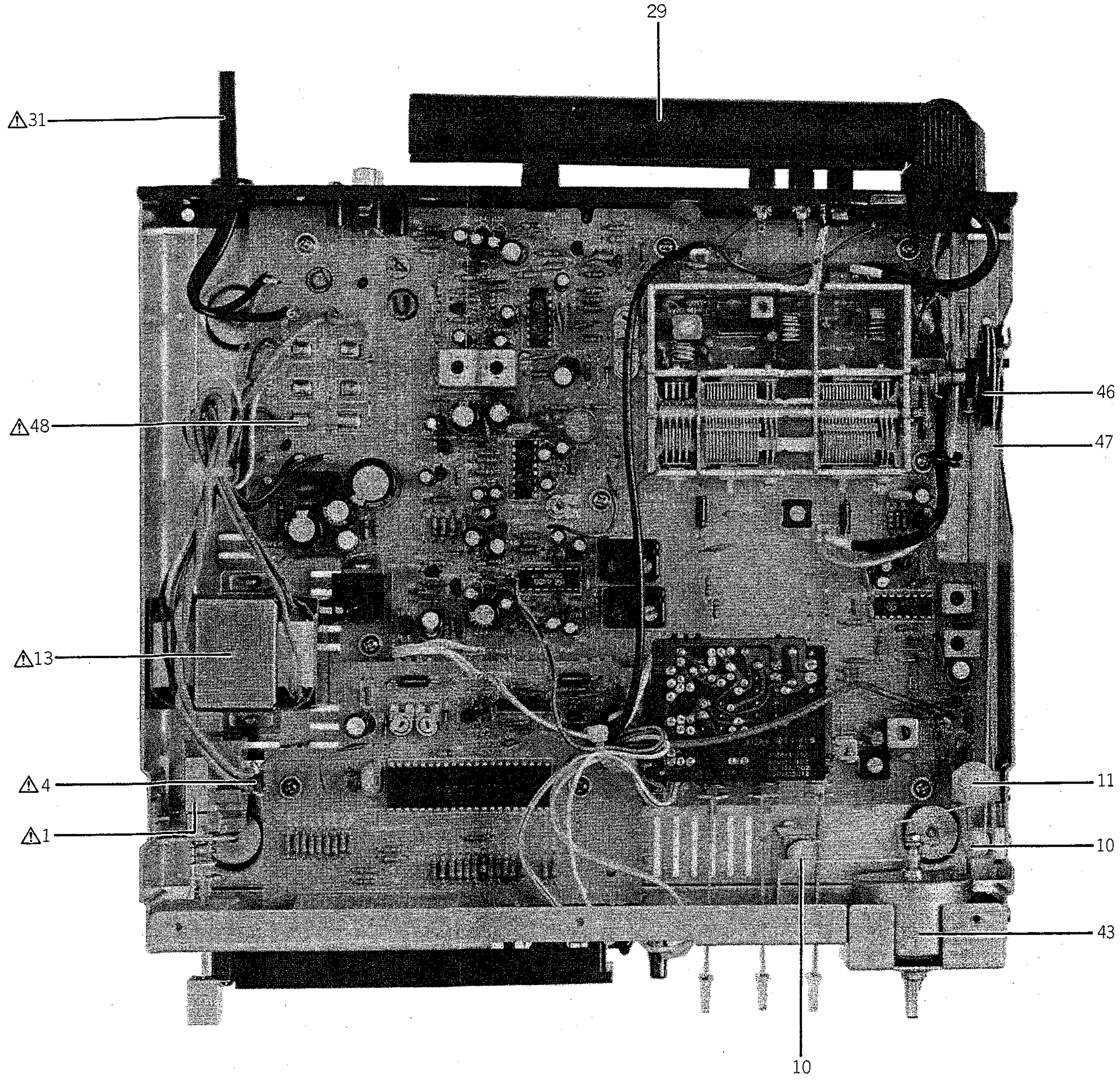
REF. NO.	PARTS NO.	DESCRIPTION
6-IC1	EI328849	IC M54459L
6-IC2	EI328850	IC LC7259
6-TR1	ET618873	TR 2SC930 E, F
6-TR2	ET316171	TR 2SC536K-NP E,F
6-D1,2	ED200469	D SILICON H DS448 FA1 F10
6-D3	ED325080	D ZENER H 05Z9.1 L
6-D4	ED322774	D ZENER H 05Z5.1 U
6-VR1,2	EV315416	R S-FIX H D8 3P 103
6-L1 to 3	EO328137	COIL FIX 2 NI-0036 2.2μH
6-IN1	EM328848	IND LE SL-1713W CHARACTER
6-x1	EI323231	OSC X'TAL 4MHz
6-R35	ER324185	⚠ R CB H SNP FS RDS 1/4W 221J
6-R38	ER324186	⚠ R CB H SNP FS RDS 1/4W 681J

7. CAL TONE P.C BOARD BLOCK
(JPN Model Only)

REF. NO.	PARTS NO.	DESCRIPTION
7-TR1 to3	ET316643	TR 2SC536K-NP F,G
7-D1 to 6	ED200469	D SILICON H DS448 FA1 F10
7-D7	ED325080	D ZENER H 05Z9.1 L
7-D8 to 11	ED200469	D SILICON H DS448 FA1 F10
7-VR1	EV321635	R S-FIX H D8 3P 102

8. ASSEMBLY BLOCK

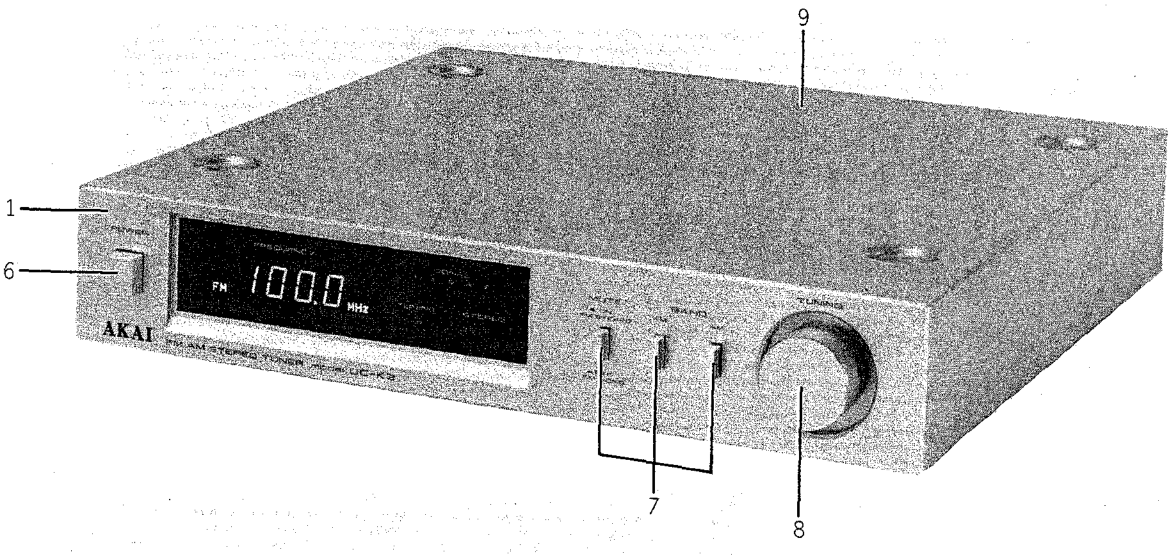

29
19
8
27
28
36
⚠31
ANTENNA
OUTPUT
LEFT
RIGHT
AC 110-240V
50/60Hz
10W
CAUTION
SHOCK HAZARD—DO NOT OPEN!
RISQUE DE CHOC—NE PAS ENLEVER!
BERÜHRUNGSGEFAHR—NICHT ÖFFNEN!
AKAI ELECTRIC CO., LTD.
MODEL NO. UC-K3
MADE IN JAPAN


29
⚠31
⚠48
⚠13
⚠4
⚠1
46
47
11
10
43
10

ASSEMBLY BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
	POWER SW BLOCK	
8-1	ES310839	⚠ SW PUSH SDG1P-E 01-1 E (U/T, CEE, SAA)
8-2x	ES315159	⚠ SW PUSH SDG1P 01-1 J (JPN)
8-3x	ES665875	⚠ SW PUSH SDG1P-J 01-1 UC (CSA, AAL)
8-4	EC320548	⚠ C CE V F 103Z 250AC (U/T, JPN)
8-5x	EC314688	⚠ C CE V FZ 103P 125AC (CSA, AAL)
8-6x	EC327382	⚠ C MP V 472M 250AC (CEE, SAA)
	ASSEMBLY BLOCK	
8-7x	SP320894	COVER BOTTOM
8-8	SA324129	FOOT
8-9x	ZS265814	PAN30X05STL CMT PW080
8-10	MR308836	PULLEY
8-11	MZ307170	PULLEY
8-12x	ZS609120	T2PAN30X06STL CMT
8-13	BT312393	⚠ TRANS POWER UC-K3T-70 (U/T)
8-14x	BT312344	⚠ TRANS POWER UC-K3T-10 (JPN)
8-15x	BT312350	⚠ TRANS POWER UC-K3T-30 (CSA, AAL)
8-16x	BT312391	⚠ TRANS POWER UC-K3T-40 (CEE)
8-17x	BT312392	⚠ TRANS POWER UC-K3T-50 (UK, SAA)
8-18x	ZS321298	BID30X08 STL CMT
8-19	SP320042A	PANEL REAR UC-K3 (U)
8-20x	SP320042F	PANEL REAR UC-K3 (J)
8-21x	SP320042B	PANEL REAR UC-K3 (C)
8-22x	SP320042C	PANEL REAR UC-K3 (A)
8-23x	SP320042D	PANEL REAR UC-K3 (E)
8-24x	SP320042E	PANEL REAR UC-K3 (B, S)
8-25x	SP320042G	PANEL REAR UC-K3L(E)
8-26x	SP320042H	PANEL REAR UC-K3L (B, S)
8-27	EJ312691	TERMINAL SCREW T5785 P 3P
8-28	ZW231030	RV NYL30X045 BL
8-29	EE312738	ANT BAR UC-K3 MW
8-30x	EE313160	ANT BAR UC-K3L LW
8-31	EW306428	⚠ AC CORD 2 CORES KP-205A, VFF UCJ (U/T)
8-32x	EW306427	⚠ AC CORD 2 CORES KP-211, VFF J (JPN)
8-33x	EW305691	⚠ AC CORD 2 CORES KP-8, SPT-1 UC (CSA, AAL)
8-34x	EW315767	⚠ AC CORD 2 CORES KP-419C/ KS-15 E (CEE)
8-35x	EW322401	⚠ AC CORD 2 CORES KP-560/S-15 S (UK, SAA)
8-36	SZ631945	STRAIN RELIEF SR-4N-4
8-37x	ZS308673	T2PAN30X20STL NI3 GUIDE
8-38x	EJ301513	⚠ SOCKET INLET S-I6453 E 2P (CEE, UK, SAA)
8-39x	ZS319460	T2BR30X06STL BZN PROJECTION
8-40x	ZS609120	T2PAN30X06STL CMT
8-41x	ZW281463	RV NYL30X065 BL (U/T, JPN, CSA, AAL)
8-42x	SZ313800	RUBBER PLATE
8-43	BF313161	FLYWHEEL ASSY
8-44x	ZW436026	PW92X150X050 STL CMT
8-45x	ZW554624	E JACK NUT SPCC NI3
8-46	MI313200	DIAL WHEEL ASSY
8-47	TA307160	DIAL STRING TK-1064 D0.5
8-48	EF309389	⚠ FUSE TSC A 250V 0.40A (U/T) (F1)
8-49x	EF308933	⚠ FUSE TSC A 250V 0.20A (U/T) (F2,3)
8-50x	EF308848	⚠ FUSE TSC 125V 0.40A (CSA, AAL) (F1)
8-51x	EF300590	⚠ FUSE EAWK T 250V 0.40A (CEE, UK, SAA) (F1)
8-52x	ZW305013	RV POP32 (AAL)

9. FINAL ASSEMBLY BLOCK



FINAL ASSEMBLY BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
9-1	BDB320249A	PANEL FRONT UC-K3 PART (U/T, CSA, AAL, CEE, SAA)
9-2x	SPB320249C	PANEL FRONT UC-K3 (CAL TONE) PART (JPN)
9-3x	BDB320249E	PANEL FRONT UC-K3L PART
9-4x	ZS406416	T2CTS30X08STL CMT
9-5x	ZS498273	T2BR30X08STL CMT PW080
9-6	SB324039	BUTTON (B)
9-7	SK313564A	KNOB PUSH (D)
9-8	SK320300A	KNOB TUNING
9-9	SPB602047	COVER UPPER (B) PART
9-10x	ZS609120	T2PAN30X06STL CMT
9-11x	ZS319460	T2BR 30X06STL BZN PROJECTION

II. MODEL UC-U3E

1. RECOMMENDED SPARE PARTS

Because, if the parts listed below are on hand, almost any repair can be accomplished, we suggest that you stock these Recommended Spare Parts Items.

REF. NO.	PARTS NO.	DESCRIPTION	NOTES
1-1	BT702197	⚠ TRANS POWER	(U/T)
1-2	BT702203	⚠ TRANS POWER	(CSA)
1-3	BT702206	⚠ TRANS POWER	(CEE)
1-4	BT702209	⚠ TRANS POWER	(UK, SAA)
1-5	ED702188	D LED LN05202P	
1-6	ED322247	D LED SLP-151D RED	
1-7	ED322215	D LED SLP-251D GRN	
1-8	ED702196	D SILICON BZ090	
1-9	ED702193	D SILICON S2VC10F-X	
1-10	ED702194	D SILICON S2VC10R-X	
1-11	ED702195	D SILICON 1S1555V-TP3	
1-12	EF709931	⚠ FUSE 0.5A (T)	(CEE, UK, SAA)
1-13	EF702200	⚠ FUSE 1S-T	(U/T)
1-14	EI307644	IC NJM4556D	
1-15	EI702186	IC NJM4560DX	
1-16	EI702187	IC TA7654P	
1-17	EI702184	IC UPC1188H	
1-18	EJ702198	⚠ SOCKET OUTLET 2PAS	(U/T, CSA, UK)
1-19	ES702199	⚠ SW PUSH	(U/T, CEE, UK, SAA)
1-20	ES702204	⚠ SW PUSH	(CSA)
1-21	ES702173	SW PUSH	
1-22	ES702174	SW PUSH	
1-23	ET308976	TR 2SC1815 BL, GR	
1-24	EV702179	VR16B-200K-X	
1-25	EV702176	VR16C-10K-D	
1-26	EV702177	VR16C-10K-D	

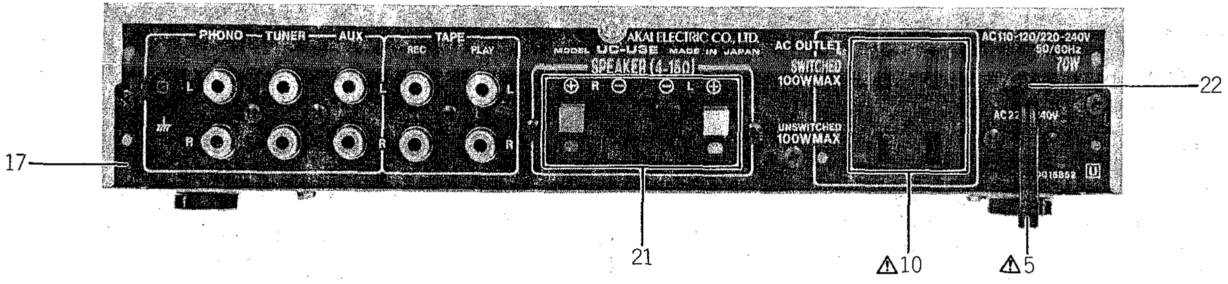
2. AF P.C BOARD BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
2-1	BA702230	AF PC ASSY
2-IC301	EI702186	IC NJM4560DX
2-IC501,502	EI702184	IC UPC1188H
2-TR501	ET308976	TR 2SC1815 BL,GR
2-D001	ED702193	D SILICON S2VC10F-X
2-D002	ED702194	D SILICON S2VC10R-X
2-D003	ED702196	D SILICON BZ090
2-D301	ED322247	D LED SLP-151D RED
2-D302 to 304	ED322215	D LED SLP-251D GRN
2-S4	ES702174	SW PUSH
2-S5	ES702173	SW PUSH
2-VR301	EV702179	VR16B-200K-X
2-VR501	EV702176	VR16C-10K-D
2-VR502	EV702177	VR16C-10K-D
2-J2	EJ702181	TERMINAL 4P
2-J3	EJ702175	JACK 6.5ST
2-J4	EJ702182	JACK US4P
2-J5	EJ702183	JACK US6P
2-R001	ER624756	⚠ R OMF H FS 2W 331J
2-R521,522	ER658091	⚠ R OMF H FS 2W 121J
2-R317,318	ER309419	⚠ R OMF H FS 1W 102J
2-R513,514	ER658124	⚠ R OMF H FS 1W 100J
2-C003,004	EC303622	C EC V UTA 472 25.0DC
2-C303,304	EC702189	C CE 471-A10MC
2-C309,310	EC702190	C CE 3R3-A25MN
2-C513,514	EC702190	C CE 3R3-A25MN
2-C301,302	EC702192	C MY R47J 50DC
2-C501,502	EC702192	C MY R47J 50DC
2-C511,512	EC702192	C MY R47J 50DC
2-C517,518	EC702192	C MY R47J 50DC

3. METER P.C BOARD BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
3-1	BA702229	METER PC ASSY
3-IC601	EI702187	IC TA7654P
3-IC602	EI307644	IC NJM4556D
3-TR601 to 604	ET308976	TR 2SC1815 BL, GR
3-D601	ED702188	D LED LN05202P
3-D606	ED702188	D LED LN05202P
3-D611,612	ED702195	D SILICON 1S1555V-TP3

4. ASSEMBLY BLOCK


PHONO
TUNER
AUX
TAPE
REC
PLAY
AKAI ELECTRIC CO., LTD.
MODEL UC-U3E MADE IN JAPAN
SPEAKER (4-16Ω)
AC OUTLET
SWITCHED 100W MAX
UNSWITCHED 100W MAX
AC110-120/220-240V 50/60Hz 70W
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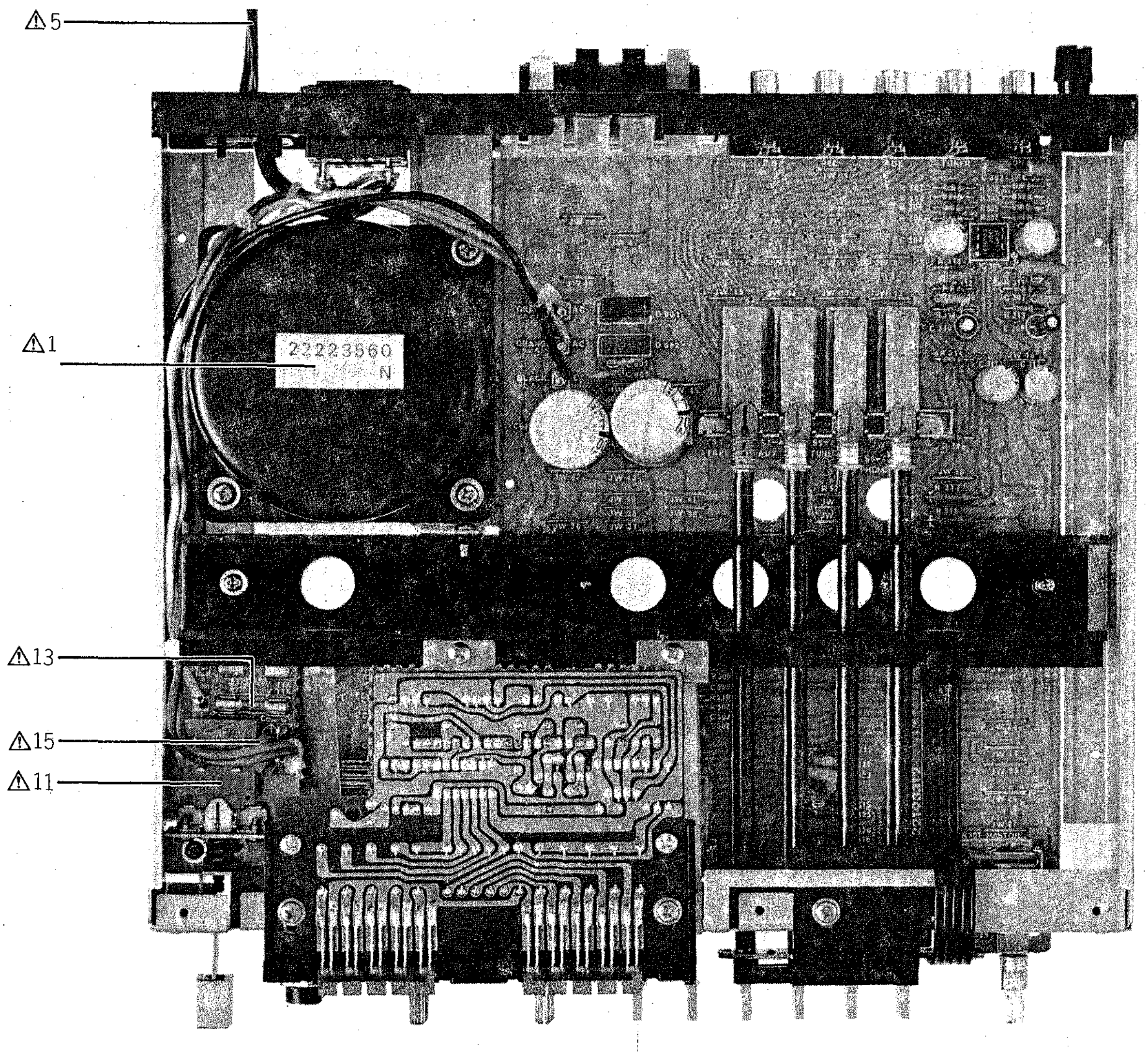
22
21
⚠10
⚠5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22223560 N
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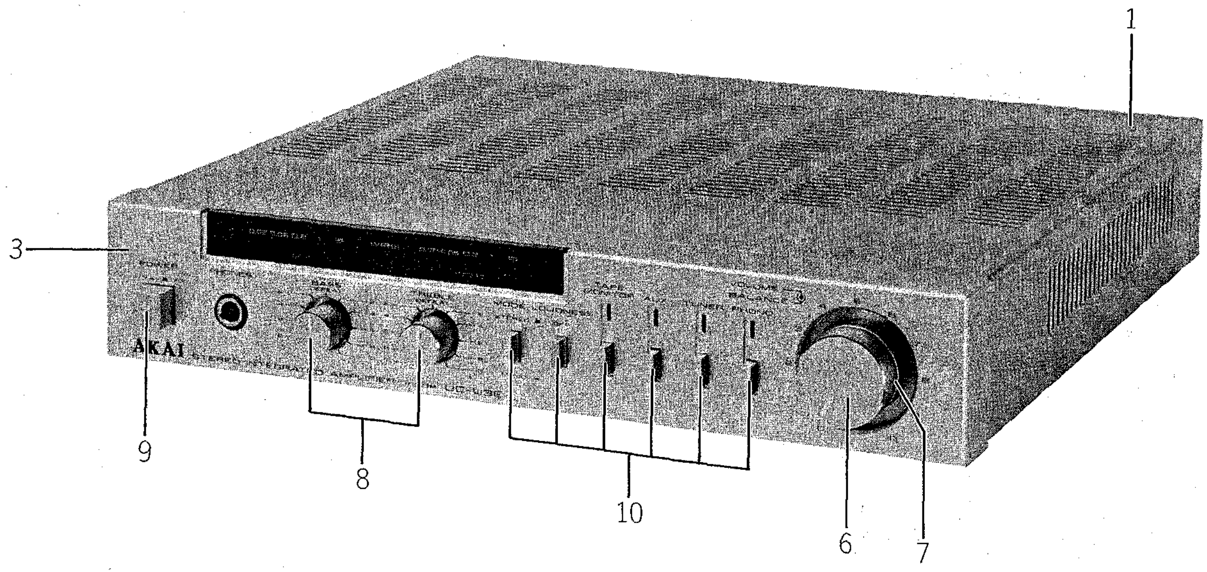
ASSEMBLY BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
4-1	BT702197	⚠ TRANS POWER (U/T)
4-2x	BT702203	⚠ TRANS POWER (CSA)
4-3x	BT702206	⚠ TRANS POWER (CEE)
4-4x	BT702209	⚠ TRANS POWER (UK, SAA)
4-5	EW711955	⚠ AC CORD U/L 2.5M (U/T)
4-6x	EW702207	⚠ AC CORD EP (CSA)
4-7x	EW702208	⚠ AC CORD E2 (CEE)
4-8x	EW702211	⚠ AC CORD 24/02x2000-0 (UK)
4-9x	EW702210	⚠ AC CORD A2 (SAA)
4-10	EJ702198	⚠ SOCKET OUTLET 2PAS (U/T, CSA, UK)
4-11	ES702199	⚠ SW PUSH (U/T, CEE, UK, SAA)
4-12x	ES702204	⚠ SW PUSH (CSA)
4-13	EF702200	⚠ FUSE 1S-T (U/T)
4-14x	EF709931	⚠ FUSE 0.5A (T) (CEE, UK, SAA)
4-15	EC702201	⚠ C CE 103-P400X (U/T, CEE, UK, SAA)
4-16x	EC702205	⚠ C CE 103-P125XS (CSA)
4-17	SP702215	PANEL REAR (U/T)
4-18x	SP702217	PANEL REAR (CSA)
4-19x	SP702219	PANEL REAR (CEE)
4-20x	SP702218	PANEL REAR (UK, SAA)
4-21	EJ702216	TERMINAL S1P
4-22	EZ702228	CORD CLAMP ASSY

5. FINAL ASSEMBLY BLOCK



FINAL ASSEMBLY BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
5-1	BC702212	CABINET
5-2x	ZS702231	T2BID30X08 STL NI3
5-3	BD702227	PANEL FRONT ASSY
5-4x	SP702214	BOTTOM PLATE
5-5x	SA324129	FOOT
5-6	SK324127	DOUBLE KNOB (UPPER)
5-7	SK705087	VOL. KNOB (LOWER) UC-U2
5-8	SK320467A	KNOB VR (B)
5-9	SB324039	BUTTON (B)
5-10	SK313564A	KNOB PUSH (D)

III. MODEL UC-U3

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1. RECOMMENDED SPARE PARTS

Because, if the parts listed below are on hand, almost any repair can be accomplished, we suggest that you stock these *Recommended Spare Parts Items.*

REF. NO.	PARTS NO.	DESCRIPTION	NOTES
1-1	BT328769	⚠ TRANS POWER UC-U3T-70	(U/T)
1-2	BT308119	⚠ TRANS POWER UC-U3T-10	(JPN)
1-3	BT308135	⚠ TRANS POWER UC-U3T-20	(AAL)
1-4	BZA2010A030A	REVERB UNIT BLK UC-U4	
1-5	ED322247	D LED SLP-151D RED	
1-6	ED322773	D LED SLP-255D-01 GRN	
1-7	ED200213	D SILICON DBA40C-K15 200/2.6A	
1-8	ED200469	D SILICON H DS448 FA1 F10	
1-9	ED214457	D SILICON H 1S2472	
1-10	ED200468	D SILICON V DS448 VB3	
1-11	ED324912	D SILICON 1D4B41 200/1.0A	
1-12	ED330218	D ZENER H HZ15L 2	
1-13	ED330219	D ZENER H HZ20L 2	
1-14	EF325683	⚠ FUSE GGS A 125V 5A	(AAL)
1-15	EF311839	⚠ FUSE TSC A 250V 1.6A	(U/T)
1-16	EF306951	⚠ FUSE TSC A 250V 2.5A	(U/T, JPN)
1-17	EF326639	⚠ FUSE TSC A 250V 3.15A	(U/T, JPN)
1-18	EF326613	⚠ FUSE TSC A 250V 5A	(JPN)
1-19	EF306956	⚠ FUSE TSC 125V 2.5A	(AAL)
1-20	EF323080	⚠ FUSE TSC 125V 3.15A	(AAL)
1-21	EI329612	IC LB1409	
1-22	EI201446	IC M5214L	
1-23	EI308138	IC STK-082G-SL	
1-24	EI322588	IC TA7136AP	
1-25	EI200938	IC TA75558S	
1-26	EJ330544	PHONE J 3P HLJ0315-010 6.3 2T	
1-27	EJ329265	PHONE J 3P HLJ0315-040 6.3 2C	
1-28	EJ323143	PIN J T5717-C P 4P	
1-29	EJ323144	PIN J T5718-C P 6P	
1-30	EJ322582	TERMINAL PUSH S-Q2370 S 4P	
1-31	ES315159	⚠ SW PUSH SDG1P 01-1 J	(JPN)
1-32	ES310839	⚠ SW PUSH SDG1P-E 01-1 E	(U/T)
1-33	ES665875	⚠ SW PUSH SDG1P-J 01-1 UC	(AAL)
1-34	ES318595	SW PUSH SUF23 2 THROW	
1-35	ES322407	SW PUSH SUF43 4 THROW	
1-36	ET322778	TR 2SA608K-NP E,F,G	
1-37	ET322598	TR 2SB632K E,F	
1-38	ET293253	TR 2SC1627 O,Y	
1-39	ET307195	TR 2SC2240 GR, BL	
1-40	ET322775	TR 2SC536K-NP E, F, G	
1-41	ET323366	TR 2SD313HP D, E, F	
1-42	ET219857	TR 2SD438 E, F	
1-43	ET310148	TR 2SD612K E, F	
1-44	EV475470	R S-FIX V V8K1-1 3P 103	
1-45	EV322984	VR ROTARY 16P10x1C B503	
1-46	EV325629	VR ROTARY 16P20x1Q C104	
1-47	EV325630	VR ROTARY 16P20x1R C104	
1-48	EV307993	VR ROTARY 16P22x0B 1Z254 3BM254	
1-49	EZ225145	⚠ SOCKET OUTLET S-I6468 UC 2x2P	

2. MAIN AMP (R) P.C BOARD BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
2-1	BAA2011A070A	MAIN AMP (R) PC BLK UC-U3 (J) (U/T,JPN)
2-2	BAA2011A070B	MAIN AMP (R) PC BLK UC-U3 (A) (AAL)
2-TR1	ET322775	TR 2SC536K-NP E,F,G
2-TR2,3	ET322778	TR 2SA608K-NP E,F,G
2-TR4	ET323366	⚠ TR 2SD313HP D,E,F
2-TR5	ET310148	⚠ TR 2SD612K E,F
2-TR6	ET322598	⚠ TR 2SB632K E,F
2-D1	ED214457	D SILICON H 1S2472
2-D2	ED330218	⚠ D ZENER H HZ15L 2
2-D3,4	ED330219	⚠ D ZENER H HZ20L 2
2-D5	ED324912	⚠ D SILICON 1D4B41 200/1.0A
2-L1	EO650823	COIL FIX 2 2.2 μH
2-R3	ER322591	⚠ R CB H SNP FS RDS 1/4W 101J
2-R5	ER322591	⚠ R CB H SNP FS RDS 1/4W 101J
2-R7	ER322361	⚠ R OMF H SNP FS 2W 102J
2-R22	ER322332	⚠ R CB H SNP FS RDS 1/4W 8R2J
2-R25	ER322332	⚠ R CB H SNP FS RDS 1/4W 8R2J
2-R28	ER302241	⚠ R CB H SNP FS RDS 1/4W 4R7J
2-R29	ER321153	⚠ R OMF H SNP FS 1W 102J
2-R30	ER308875	⚠ R CB H SNP FS RDS 1/2W 100J
2-C30	EC326583	C MMY V CUT CF921 473K 400DC

3. MAIN AMP (L) P.C BOARD BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
3-1	BAA2011A120A	MAIN AMP (L) PC BLK UC-U3 (J) (U/T,JPN)
3-2	BAA2011A120B	MAIN AMP (L) PC BLK UC-U3 (A) (AAL)
3-TR1	ET322775	TR 2SC536K-NP E,F,G
3-D5,6	ED200469	D SILICON DS448 FA1 F10
3-VR1	EV475470	R S-FIX V V8K1-1 3P 103
3-L1	EO650823	COIL FIX 2 2.2μH
3-R3	ER322591	⚠ R CB H SNP FS RDS 1/4W 101J
3-R5	ER322591	⚠ R CB H SNP FS RDS 1/4W 101J
3-R7	ER322361	⚠ R OMF H SNP FS 2W 102J
3-R8	ER308875	⚠ R CB H SNP FS RDS 1/2W 100J
3-C19	EC313534	C EC V F05 NP 04D 100M 16.0DC

4. CONTROL P.C BOARD BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
4-1	BAA2010A040A	CONTROL PC BLK UC-U4
4-IC1	EI322588	IC TA7136AP
4-IC2	EI200938	IC TA75558S
4-IC3	EI200938	IC TA75558S
4-TR1	ET307195	TR 2SC2240 GR,BL
4-TR2	ET293253	TR 2SC1627 O,Y
4-TR3	ET307195	TR 2SC2240 GR,BL
4-J1	EJ330544	PHONE J 3P HLJ0315-010 6.3 2T
4-SW1	ES318595	SW PUSH SUF23 2 THROW
4-VR1	EV307993	VR ROTARY 16P22x0B 1Z254 3BM254
4-VR2	EV325629	VR ROTARY 16P20x1Q C104
4-VR3	EV325630	VR ROTARY 16P20x1R C104
4-VR4,5	EV322984	VR ROTARY 16P10x1C B503
4-R9,10	ER322331	⚠ R CB H SNP FS RDS 1/4W 821J
4-R28,29	ER323074	⚠ R CB H SNP FS RDS 1/4W 102J
4-R51	ER323074	⚠ R CB H SNP FS RDS 1/4W 102J
4-R53	ER323074	⚠ R CB H SNP FS RDS 1/4W 102J

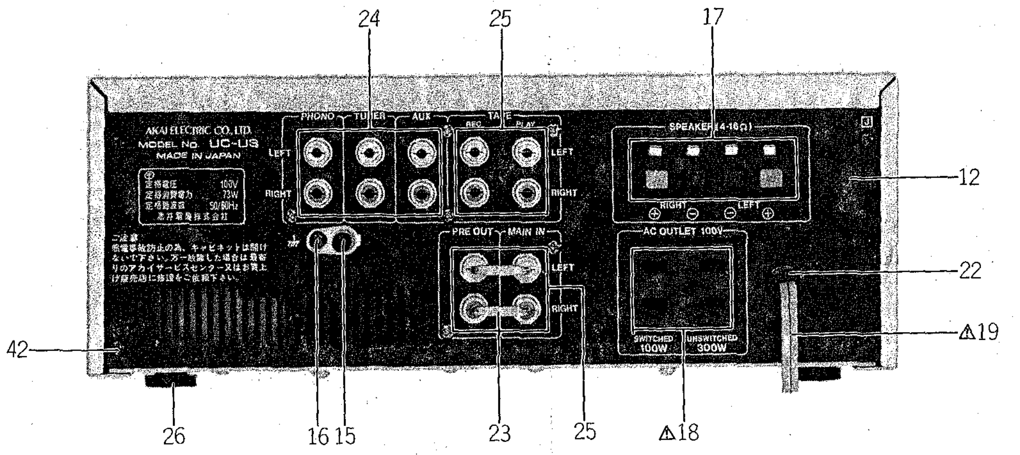
5. FUNCTION P.C BOARD BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
5-1	BAA2011A030A	FUNCTION PC BLK UC-U3
5-IC1	EI201446	IC M5214L
5-IC2	EI329612	IC LB1409
5-TR1	ET219857	TR 2SD438 E,F
5-D1	ED200468	D SILICON V DS448 VB3
5-SW1	ES322407	SW PUSH SUF43 4 THROW
5-R4	ER314664	R MF V 1/4W 1000F
5-R5	ER322362	R MF V 1/4W 4642F
5-R6	ER322363	R MF V 1/4W 3741F
5-R9,10	ER322331	⚠ R CB H SNP FS RDS 1/4W 821J
5-R31	ER316802	⚠ R CB H SNP FS RDS 1/4W 471J
5-C6	EC322364	C PP V SNP PS 6972J 50DC
5-C7	EC322377	C PP V SNP PS 2002J 50DC

6. POWER SUPPLY P.C BOARD BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
6-1	BAA2011A040A	POWER PC BLK UC-U3
6-D1	ED200213	⚠ D SILICON DBA40C-K15 200/2.6A
6-C1	EC322358	C EC V SNP NM 103 35DC
6-C2	EC322358	C EC V SNP NM 103 35DC
6-C3	EC320548	C CE V F 103Z 250AC
6-C4	EC320548	C CE V F 103Z 250AC
6-C5	EC326583	C MMY V CUT CF921 473K 400DC

7. ASSEMBLY BLOCK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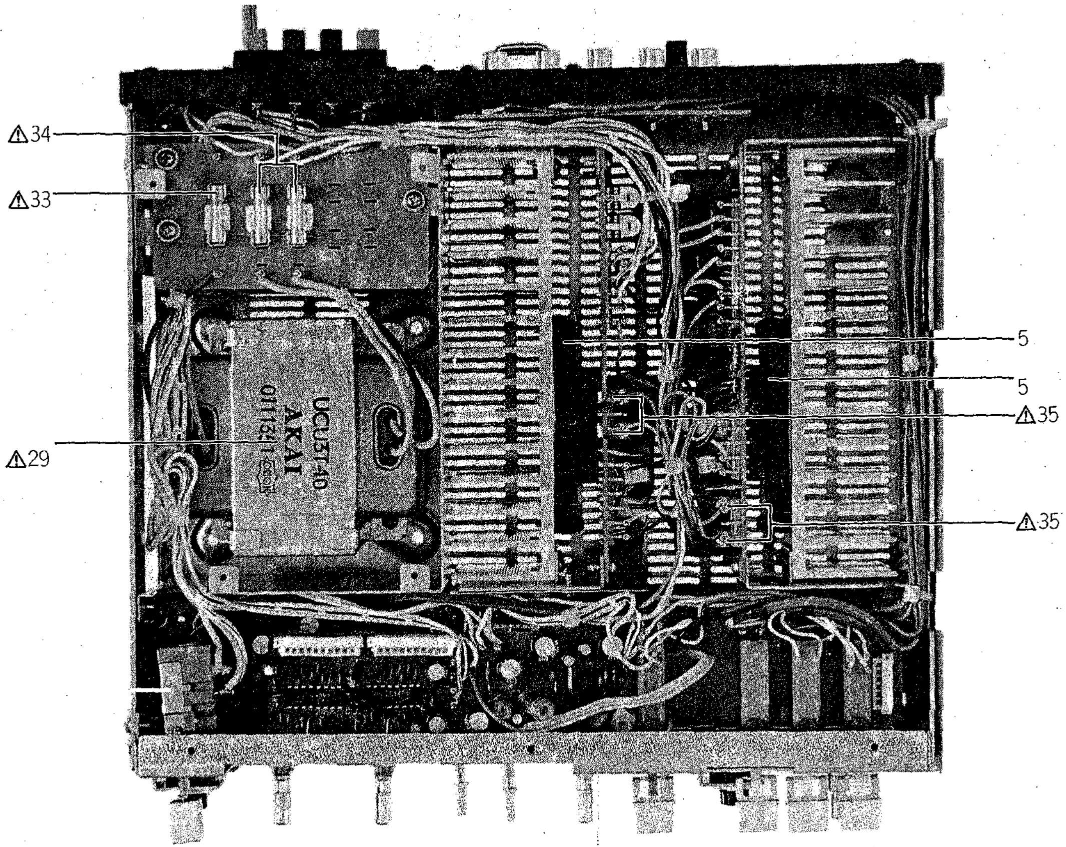
AKAI ELECTRIC CO., LTD.
MODEL No. UC-U5
MADE IN JAPAN
PHONO
TUNER
AUX
TAPE
REC
PLAY
LEFT
RIGHT
SPEAKER (4-16Ω)
RIGHT
LEFT
PRE OUT
MAIN IN
AC OUTLET 100V
SWITCHED 100W
UNSWITCHED 300W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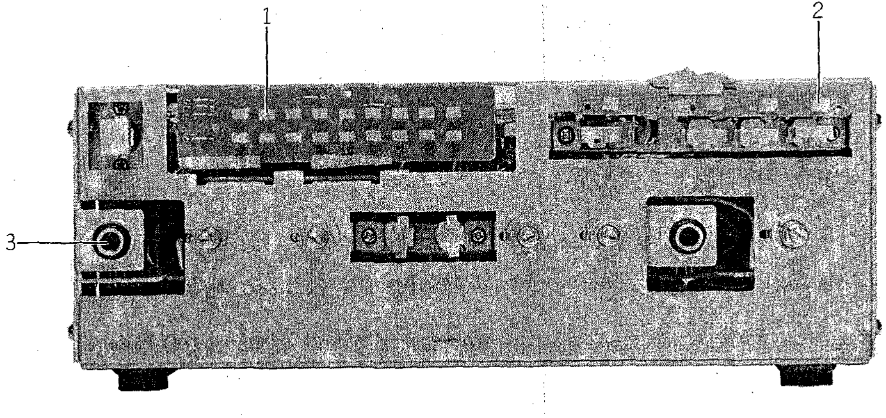
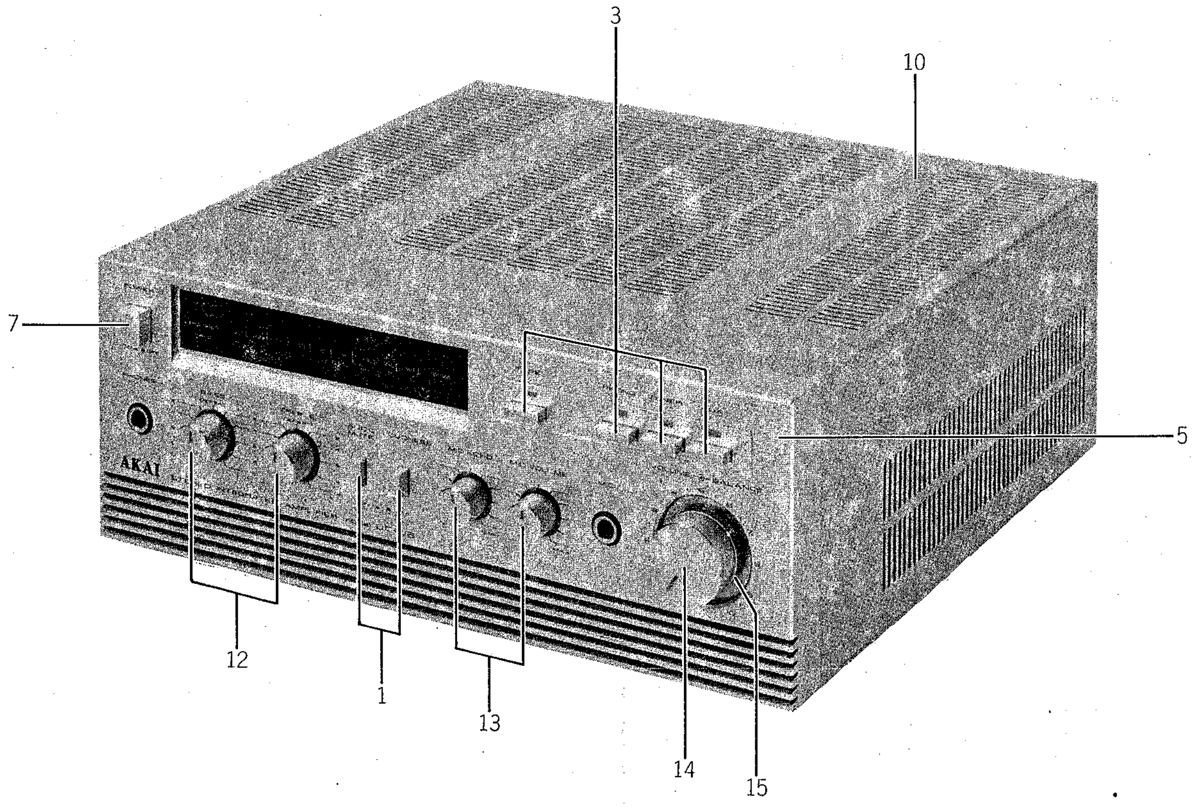
UCU5T-40
AKAI



ASSEMBLY BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
	METER PC BLOCK	
7-1	ED322247	D LED SLP-151D RED (D1to9)
	LED PC BLOCK	
7-2	ED322773	D LED SLP-255D-01 GRN (D1to5)
	PHONE J PC BLOCK	
7-3	EJ329265	PHONE J 3P HLJ0315-040 6.3 2C
7-4x	ER308028	R OMF H SNP FS 1W 181J (R1)
	HEAT SINK BLOCK	
7-5	EI308138	IC STK-082G-SL
	POWER SW BLOCK	
7-6	ES315159	⚠ SW PUSH SDG1P 01-1 J (JPN)
7-7x	ES665875	⚠ SW PUSH SDG1P-J 01-1 UC (AAL)
7-8x	ES310839	⚠ SW PUSH SDG1P-E 01-1 E (U/T)
7-9x	EC320548	⚠ C CE V F 103Z 250AC (U/T, JPN)
7-10x	EC314688	⚠ C CE V FZ 103P 125AC (AAL)
	REVERB UNIT BLOCK	
7-11x	BZA2010A030A	REVERB UNIT BLK UC-U4
	REAR PANEL BLOCK	
7-12	SP320568G	PANEL REAR UC-U3 (J)
7-13x	SP320568D	PANEL REAR UC-U3 (A)
7-14x	SP320568E	PANEL REAR UC-U3 (U)
7-15	EJ329610	TERMINAL W/SCREW UB-0067 L 1P
7-16	ZS447761	T2BR30x06STL BNI
7-17	EJ322582	TERMINAL PUSH S-Q2370 S 4P
7-18	EZ225145	⚠ SOCKET OUTLET S-I6468 UC 2x2P
7-19	EW306427	⚠ AC CORD 2 CORES KP-211, VFF J (JPN)
7-20x	EW305691	⚠ AC CORD 2 CORES KP-8, SPT-1 UC (AAL)
7-21x	EW306428	⚠ AC CORD 2 CORES KP-205A, VFF UCJ (U/T)
7-22	SZ631945	STRAIN RELIEF SR-4N-4
7-23	EJ326185	PLUG SHORT PIN UZ-0036
	INPUT PC BLOCK	
7-24	EJ323144	PIN J T5718-C P 6P
7-25	EJ323143	PIN J T5717-C P 4P
	ASSEMBLY BLOCK	
7-26	SA324129	FOOT
7-27x	ZW550642	PW31x080x050STL CMT
7-28x	ZS417216	PAN30x04STL CMT
7-29	BT308119	⚠ TRANS POWER UCU3T-10 (JPN)
7-30x	BT308135	⚠ TRANS POWER UCU3T-20 (AAL)
7-31x	BT328769	⚠ TRANS POWER UC-U3T-70 (U/T)
7-32x	ZS300519	ST PAN40x08STL CMT
7-33	EF326639	⚠ FUSE TSC A 250V 3.15A (JPN)(F1)
7-34	EF326613	⚠ FUSE TSC A 250V 5A (JPN)(F2,3)
7-35	EF306951	⚠ FUSE TSC A 250V 2.5A (JPN)(F4to7)
7-36x	EF323080	⚠ FUSE TSC 125V 3.15A (AAL) (F1)
7-37x	EF325683	⚠ FUSE GGS A 125V 5A (AAL) (F2,3)
7-38x	EF306956	⚠ FUSE TSC 125V 2.5A (AAL)(F4to7)
7-39x	EF326639	⚠ FUSE TSC A 250V 3.15A (U/T)(F1)
7-40x	EF311839	⚠ FUSE TSC A 250V 1.6A (U/T)(F2,3)
7-41x	EF306951	⚠ FUSE TSC A 250V 2.5A (U/T)(F4to7)
7-42	ZS319460	T2BR30x06STL BZN PROJECTION
7-43x	ZS325495	T2BR30x06STL CMT
7-44x	ZW305013	RV POP32

8. FINAL ASSEMBLY BLOCK



FINAL ASSEMBLY BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
	FRONT CHASSIS BLOCK	
8-1	SK313564A	KNOB PUSH (D)
8-2x	TA200757	JOINT
8-3	SK320566A	KNOB PUSH
8-4x	TA320567	LEVER JOINT
	FRONT PANEL BLOCK	
8-5	BDB320480B	PANEL FRONT UC-U3 PART
8-6x	SE320481B	ESCUTCHEON FILTER (B)
	FINAL ASSEMBLY BLOCK	
8-7	SB324039	BUTTON (B)
8-8x	ZS406416	T2CTS30x08STL CMT
8-9x	ZS447840	T2BR30x08STL CMT
8-10	SPB320569A	COVER UPPER PART
8-11x	ZS609120	T2PAN30x06STL CMT
8-12	SK320646A	KNOB VR (A)
8-13	SK320467A	KNOB VR (B)
8-14	SKB324210	DOUBLE KNOB (UPPER) PART UC-F5
8-15	SK320649A	KNOB VR LOWER

IV. MODEL UC-U4

1. RECOMMENDED SPARE PARTS

Because, if the parts listed below are on hand, almost any repair can be accomplished, we suggest that you stock these Recommended Spare Parts Items.

REF. NO.	PARTS NO.	DESCRIPTION	NOTES
1-1	BT308117	⚠TRANS POWER UC-U4T-10	(JPN)
1-2	BT308118	⚠TRANS POWER UC-U4T-20	(AAL)
1-3	BZA2010A030A	REVERB UNIT BLK UC-U4	
1-4	ED322247	D LED SLP-151D RED	
1-5	ED322773	D LED SLP-255D-01 GRN	
1-6	ED200749	D SILICON DBA60-K15 400/6.0A	
1-7	ED200469	D SILICON H DS448 FA1 F10	
1-8	ED214457	D SILICON H 1S2472	
1-9	ED200468	D SILICON V DS448 VB3	
1-10	ED324912	D SILICON 1D4B41 200/1.0A	
1-11	ED330218	D ZENER H HZ15L 2	
1-12	ED330219	D ZENER H HZ20L 2	
1-13	EF325683	⚠FUSE GGS A 125V 5A	(AAL)
1-14	EF309389	⚠FUSE TSC A 250V 0.40A	(JPN)
1-15	EF306952	⚠FUSE TSC A 250V 4A	(JPN)
1-16	EF326613	⚠FUSE TSC A250V 5A	(JPN)
1-17	EF308848	⚠FUSE TSC 125V 0.40A	(AAL)
1-18	EF306957	⚠FUSE TSC 125V 4A	(AAL)
1-19	EI329612	IC LB1409	
1-20	EI201446	IC M5214L	
1-21	EI308137	IC STK-084G-SL	
1-22	EI322588	IC TA7136AP	
1-23	EI323564	IC TA7317P	
1-24	EI200938	IC TA75558S	
1-25	EJ330544	PHONE J 3P HLJ0315-010 6.3 2T	
1-26	EJ329265	PHONE J 3P HLJ0315-040 6.3 2C	
1-27	EJ323143	PIN J T5717-C P 4P	
1-28	EJ323144	PIN J T5718-C P 6P	
1-29	EJ322582	TERMINAL PUSH S-Q2370 S 4P	
1-30	EO650823	COIL FIX 2 2.2μH	
1-31	EP307992	RELAY SIG G4D-212P-200 2NO 24V	
1-32	ER329616	R CT P F09 PLATE 3W R47K	
1-33	ES315159	⚠SW PUSH SDG1P 01-1 J	(JPN)
1-34	ES679566	⚠SW PUSH SDG1P001 02 UC	(AAL)
1-35	ES318595	SW PUSH SUF23 2 THROW	
1-36	ES318596	SW PUSH SUF53 5 THROW	
1-37	ET327162	TR FET 2SK117 O	
1-38	ET322353	TR FET 2SK117 Y	
1-39	ET322778	TR 2SA608K-NP E,F,G	
1-40	ET322598	TR 2SB632K E,F	
1-41	ET293253	TR 2SC1627 O,Y	
1-42	ET307195	TR 2SC2240 GR, BL	
1-43	ET322775	TR 2SC536K-NP E, F, G	
1-44	ET323366	TR 2SD313HP D, E, F	
1-45	ET219857	TR 2SD438 E, F	
1-46	ET310148	TR 2SD612K E, F	
1-47	EV475470	R S-FIX V V8K1-1 3P 103	
1-48	EV322984	VR ROTARY 16P10×1C B503	
1-49	EV325629	VR ROTARY 16P20×1Q C104	
1-50	EV325630	VR ROTARY 16P20×1R C104	
1-51	EV307993	VR ROTARY 16P22×0B 1Z254 3BM254	
1-52	EZ225145	⚠SOCKET OUTLET S-I6468 UC 2×2P	

2. MAIN AMP (R) P.C BOARD BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
2-1	BAA2010A100A	MAIN AMP (R) PC BLK UC-U4
2-TR1	ET322775	TR 2SC536K-NP E,F,G
2-TR2	ET323366	⚠ TR 2SD313HP D,E,F
2-TR3	ET310148	⚠ TR 2SD612K E,F
2-TR4	ET322598	⚠ TR 2SB632K E,F
2-D1	ED200469	D SILICON H DS448 FA1 F10
2-D2	ED330218	⚠ D ZENER H HZ15L 2
2-D3,4	ED330219	⚠ D ZENER H HZ20L 2
2-D5	ED324912	⚠ D SILICON 1D4B41 200/1.0A
2-L1	EO650823	COIL FIX 2 2.2μH
2-R3	ER322591	⚠ R CB H SNP FS RDS 1/4W 101J
2-R5	ER322591	⚠ R CB H SNP FS RDS 1/4W 101J
2-R7	ER329616	⚠ R CT P F09 PLATE 3W R47K
2-R10	ER308875	⚠ R CB H SNP FS RDS 1/2W 100J
2-R14	ER302241	⚠ R CB H SNP FS RDS 1/4W 4R7J
2-R17	ER322332	⚠ R CB H SNP FS RDS 1/4W 8R2J
2-R20	ER322332	⚠ R CB H SNP FS RDS 1/4W 8R2J
2-R21	ER321153	⚠ R OMF H SNP FS 1W 102J
2-C27	EC326583	C MMY V CUT CF921 473K 400DC

3. MAIN AMP (L) P.C BOARD BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
3-1	BAA2010A150A	MAIN AMP (L) PC BLK UC-U4
3-IC1	EI323564	IC TA7317P
3-TR1	ET322775	TR 2SC536K-NP E,F,G
3-TR2	ET322778	TR 2SA608K-NP E,F,G
3-D1,2	ED200469	D SILICON H DS448 FA1 F10
3-D3	ED214457	D SILICON H 1S2472
3-D4	ED200469	D SILICON H DS448 FA1 F10
3-D5,6	ED200469	D SILICON H DS448 FA1 F10
3-VR1	EV475470	R S-FIX V V8K1-1 3P 103
3-RL1	EP307992	RELAY SIG G4D-212P-200 2NO 24V
3-L1	EO650823	COIL FIX 2 2.2μH
3-R3	ER322591	⚠ R CB H SNP FS RDS 1/4W 101J
3-R5	ER322591	⚠ R CB H SNP FS RDS 1/4W 101J
3-R7	ER329616	⚠ R CT P F09 PLATE 3W R47K
3-R10	ER308875	⚠ R CB H SNP FS RDS 1/2W 100J
3-R27	ER329070	⚠ R OMF H SNP FS 2W 181J

4. CONTROL P.C BOARD BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
4-1	BAA2010A040A	CONTROL PC BLK UC-U4
4-IC1	EI322588	IC TA7136AP
4-IC2	EI200938	IC TA75558S
4-IC3	EI200938	IC TA75558S
4-TR1	ET307195	TR 2SC2240 GR,BL
4-TR2	ET293253	TR 2SC1627 O,Y
4-TR3	ET307195	TR 2SC2240 GR,BL
4-J1	EJ330544	PHONE J 3P HLJ0315-010 6.3 2T
4-SW1	ES318595	SW PUSH SUF23 2 THROW
4-VR1	EV307993	VR ROTARY 16P22x0B 1Z254 3BM254
4-VR2	EV325629	VR ROTARY 16P20x1Q C104
4-VR3	EV325630	VR ROTARY 16P20x1R C104
4-VR4,5	EV322984	VR ROTARY 16P10x1C B503
4-R9,10	ER322331	⚠ R CB H SNP FS RDS 1/4W 821J
4-R28,29	ER323074	⚠ R CB H SNP FS RDS 1/4W 102J
4-R51	ER323074	⚠ R CB H SNP FS RDS 1/4W 102J
4-R53	ER323074	⚠ R CB H SNP FS RDS 1/4W 102J

5. FUNCTION P.C BOARD BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
5-1	BAA2010A050A	FUNCTION PC BLK UC-U4
5-IC1	EI201446	IC M5214L
5-IC2	EI329612	IC LB1409
5-TR1	ET219857	TR 2SD438 E,F
5-D1	ED200468	D SILICON V DS448 VB3
5-SW1	ES318596	SW PUSH SUF53 5 THROW
5-R4	ER314664	R MF V 1/4W 1000F
5-R5	ER322362	R MF V 1/4W 4642F
5-R6	ER322363	R MF V 1/4W 3741F
5-R9,10	ER322331	⚠ R CB H SNP FS RDS 1/4W 821J
5-R31	ER316802	⚠ R CB H SNP FS RDS 1/4W 471J
5-C6	EC322364	C PP V SNP PS 6972J 50DC
5-C7	EC322377	C PP V SNP PS 2002J 50DC

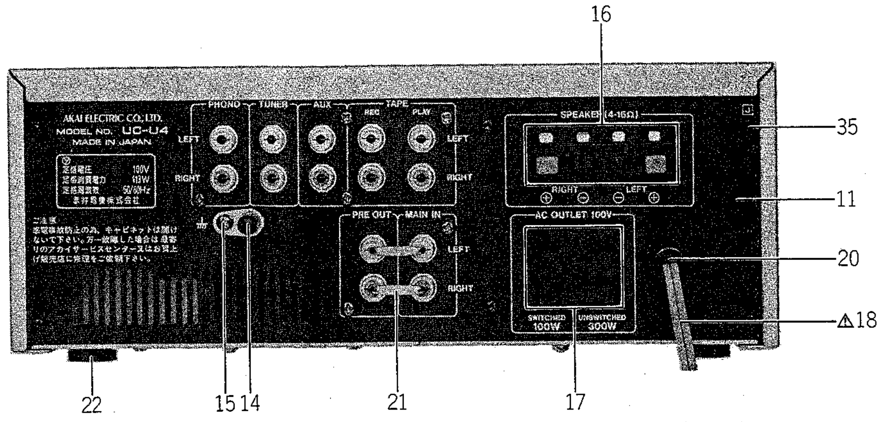
6. INPUT P.C BOARD BLOCK

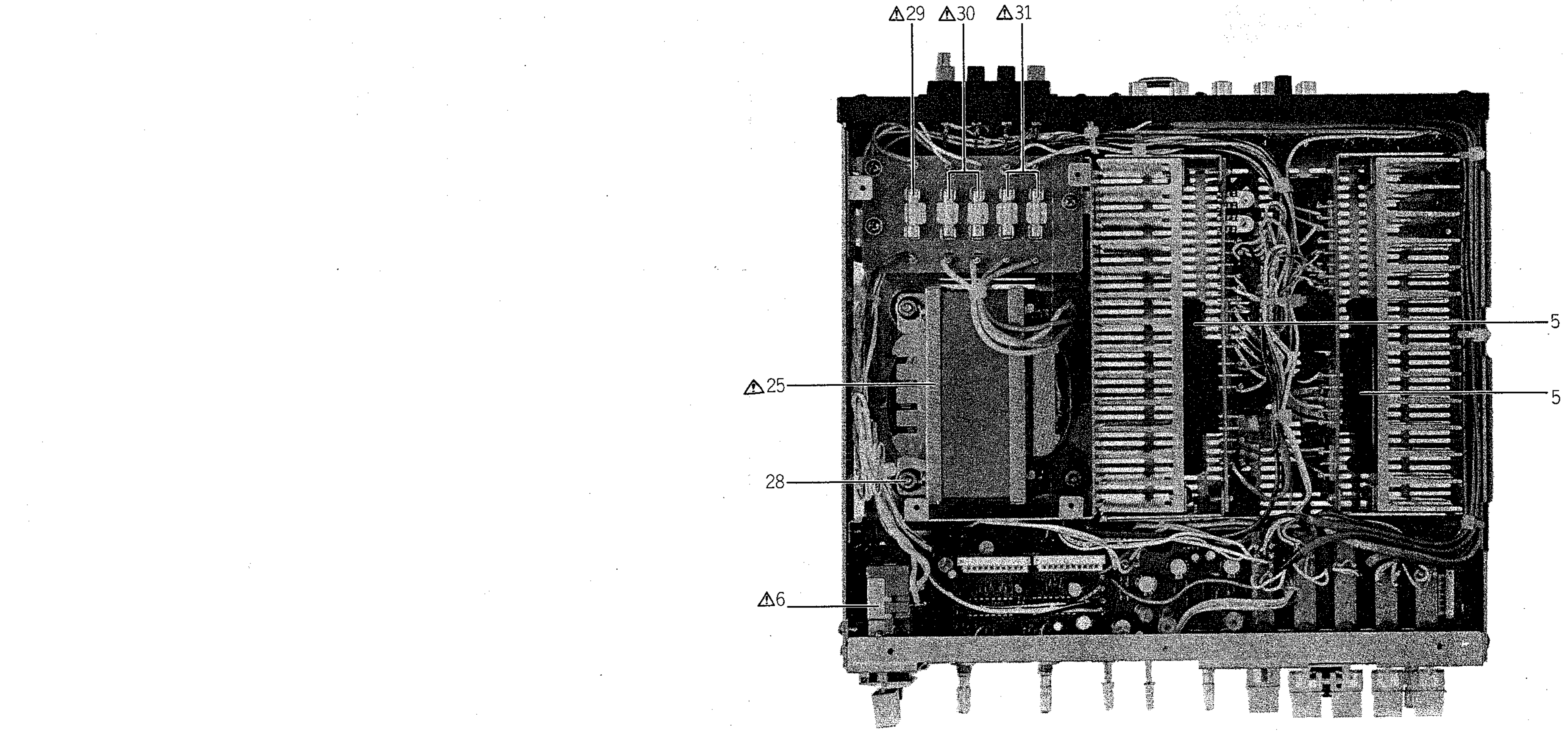
REF. NO.	PARTS NO.	DESCRIPTION
6-TR1	ET327162	TR FET 2SK117 O
6-TR2	ET322353	TR FET 2SK117 Y
6-TR3	ET327162	TR FET 2SK117 O
6-TR4	ET322775	TR 2SC536K-NP E,F,G
6-J1	EJ323144	PIN J T5718-C P6P
6-J2,3	EJ323143	PIN J T5717-CP4P
6-C7	EC324379	C EC V F05 NP LR 2R2M 50DC

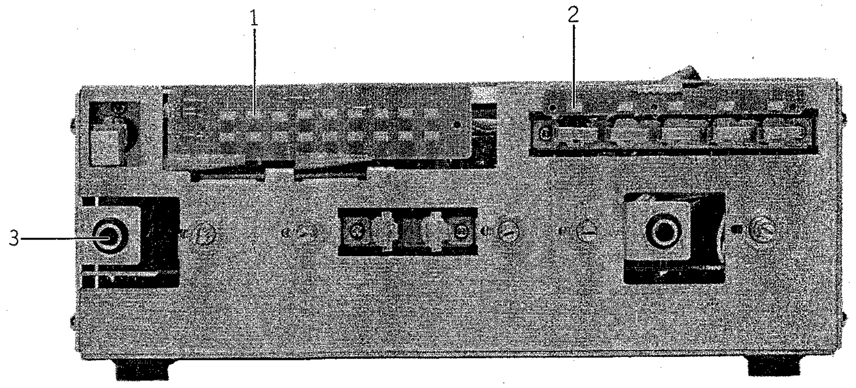
7. POWER SUPPLY P.C BOARD BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
7-1	BAA2010A070A	POWER PC BLK UC-U4
7-D1	ED200749	⚠ D SILICON DBA60-K15 400/6.0A
7-C1	EC200811	C EC V SNP NM 103 50DC
7-C2	EC200811	C EC V SNP NM 103 50DC
7-C3,4	EC320548	C CE V F 103Z 250AC
7-C5	EC326583	C MMY V CUT CF921 473K 400DC

8. ASSEMBLY BLOCK



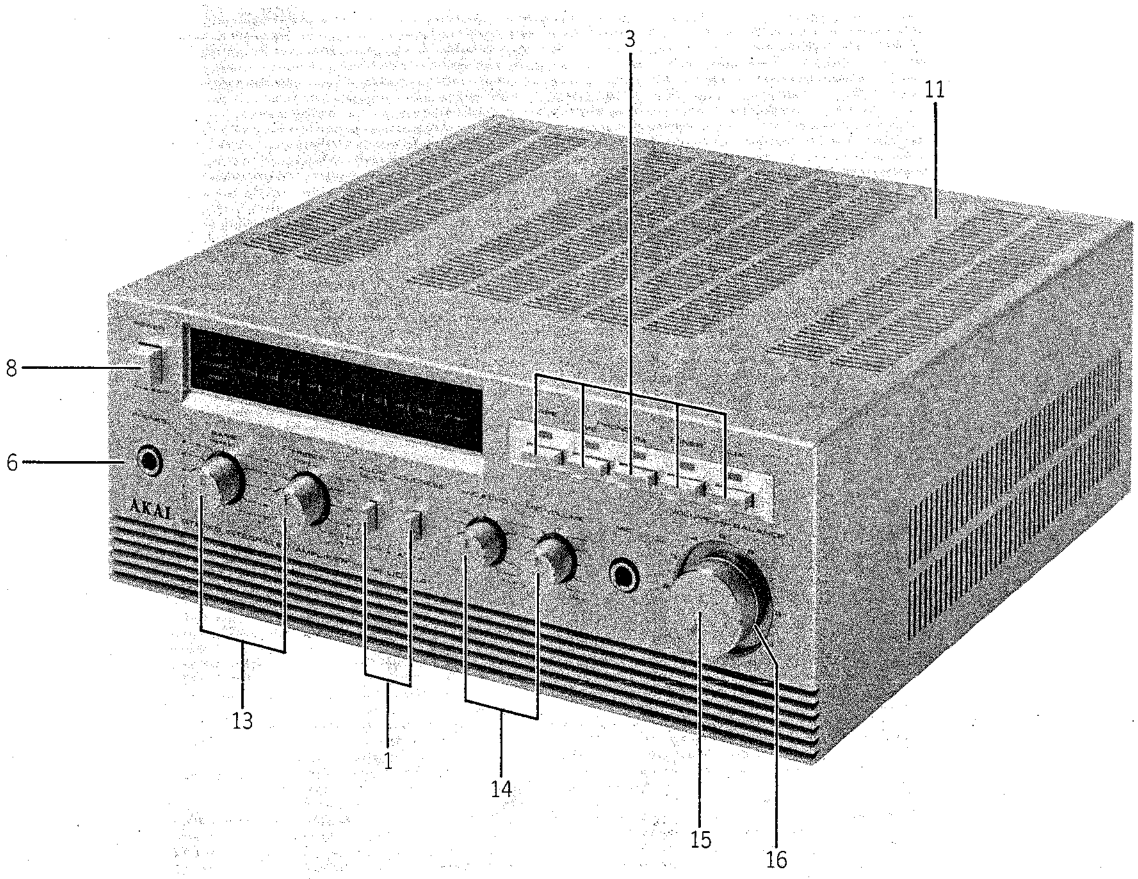




ASSEMBLY BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
	METER PC BLOCK	
8-1	ED322247	D LED SLP-151D RED (D1to9)
	LED PC BLOCK	
8-2	ED322773	D LED SLP-255D-01 GRN (D1to5)
	PHONE J PC BLOCK	
8-3	EJ329265	PHONE J 3P HLJ0315-040 6.3 2C
8-4x	ER308028	R OMF H SNP FS 1W 181J (R1)
	HEAT SINK BLOCK	
8-5	EI308137	IC STK-084G-SL
	POWER SW BLOCK	
8-6	ES315159	⚠ SW PUSH SDG1P 01-1 J (JPN)
8-7x	ES679566	⚠ SW PUSH SDG1P001 02 UC (AAL)
8-8x	EC320548	⚠ C CE V F 103Z 250AC (JPN)
8-9x	EC314688	⚠ C CE V FZ 103P 125AC (AAL)
	REVERB UNIT BLOCK	
8-10x	BZA2010A030A	REVERB UNIT BLK UC-U4
	REAR PANEL BLOCK	
8-11	SP320568F	PANEL REAR UC-U4 (J)
8-12x	SP320568B	PANEL REAR UC-U4 (A)
8-13x	ZS522865	T2BR30x12STL BN1
8-14	EJ329610	TERMINAL W/SCREW UB-0067 L 1P
8-15	ZS447761	T2BR30x06STL BNI
8-16	EJ322582	TERMINAL PUSH S-Q2370 S 4P
8-17	EZ225145	⚠ SOCKET OUTLET S-I6468 UC 2x2P
8-18	EW306427	⚠ AC CORD 2 CORES KP-211, VFF J (JPN)
8-19x	EW305691	⚠ AC CORD 2 CORES KP-8, SPT-1 UC (AAL)
8-20	SZ631945	STRAIN RELIEF SR-4N-4
8-21	EJ326185	PLUG SHORT PIN UZ-0036
	ASSEMBLY BLOCK	
8-22	SA324129	FOOT
8-23x	ZW550642	PW31x080x050STL CMT
8-24x	ZS417216	PAN30x04STL CMT
8-25	BT308117	⚠ TRANS POWER UCU4T-10 (JPN)
8-26x	BT308118	⚠ TRANS POWER UCU4T-20 (AAL)
8-27x	ZS435273	BID40x10STL CMT
8-28	ZW413267	N FRANGE 40STL CMT
8-29	EF306952	⚠ FUSE TSC A 250V 4A (JPN)(F1)
8-30	EF326613	⚠ FUSE TSC A 250V 5A (JPN)(F2,3)
8-31	EF309389	⚠ FUSE TSC A 250V 0.40A (JPN)(F4,5)
8-32x	EF306957	⚠ FUSE TSC 125V 4A (AAL)(F1)
8-33x	EF325683	⚠ FUSE GGS A 125V 5A (AAL)(F2,3)
8-34x	EF308848	⚠ FUSE TSC 125V 0.40A (AAL)(F4,5)
8-35	ZS319460	T2BR30x06STL BZN PROJECTION
8-36x	ZS325495	T2BR30x06STL CMT
8-37x	ZW305013	RV POP32 (AAL)

9. FINAL ASSEMBLY BLOCK



FINAL ASSEMBLY BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
	FRONT CHASSIS BLOCK	
9-1	SK313564A	KNOB PUSH (D)
9-2x	TA200757	JOINT
9-3	SK320566A	KNOB PUSH
9-4x	TA200757	JOINT
9-5x	TA320567	LEVER JOINT
	FRONT PANEL BLOCK	
9-6	BDB320480A	PANEL FRONT UC-U4 PART
9-7x	SE320481A	ESCUTCHEON FILTER (A)
	FINAL ASSEMBLY BLOCK	
9-8	SB324039	BUTTON (B)
9-9x	ZS406416	T2CTS30x08STL CMT
9-10x	ZS447840	T2BR30x08STL CMT
9-11	SPB320569A	COVER UPPER PART
9-12x	ZS609120	T2PAN30x06STL CMT
9-13	SK320646A	KNOB VR (A)
9-14	SK320467A	KNOB VR (B)
9-15	SKB324210	DOUBLE KNOB (UPPER) PART UC-F5
9-16	SK320649A	KNOB VR LOWER

V. MODEL UC-F3

1. RECOMMENDED SPARE PARTS

Because, if the parts listed below are on hand, almost any repair can be accomplished, we suggest that you stock these Recommended Spare Parts Items.

REF. NO.	PARTS NO.	DESCRIPTION	NOTES
1-1	BH702453	HEAD BRACKET ASSY	
1-2	BM702452	MOTOR	
1-3	BR702285	SUPPLY REEL TABLE ASSY	
1-4	BR702287	TAKE UP REEL TABLE ASSY	
1-5	BT702249	⚠TRANS POWER	(U/T)
1-6	BT702250	⚠TRANS POWER	(JPN)
1-7	BT702251	⚠TRANS POWER	(CSA, AAL)
1-8	BT702252	⚠TRANS POWER	(CEE)
1-9	BT702253	⚠TRANS POWER	(UK, SAA)
1-10	BZ702294	PULLEY ASSY	
1-11	ED702704	D GERMA MPX-B	
1-12	ED322247	D LED SLP-151D RED	
1-13	ED322215	D LED SLP-251D GRN	
1-14	ED702247	D LED SLP-451D YLW	
1-15	ED742019	D SILICON S5277B	
1-16	ED740049	D SILICON W02	
1-17	ED702236	D SILICON 1S1553V	
1-18	ED741904	D SILICON 1S1555V	
1-19	ED702195	D SILICON 1S1555V-TP3	
1-20	ED327098	D ZENER H WZ-061	
1-21	ED702244	D ZENER WZ105	
1-22	EF702260	⚠FUSE 0.20A (T)	(UK)
1-23	EI702237	IC LM1111CN	
1-24	EI307644	IC NJM4556D	
1-25	EI702239	IC NJM4558DX	
1-26	EI702186	IC NJM4560DX	
1-27	EI701058	IC TA7137P	
1-28	EI701059	IC TA7612AP	
1-29	EI702245	IC TC9121P	
1-30	EL702329	PL CORD 12.0V 60MA	
1-31	EP702334	SOLENOID	
1-32	EP702312	SOLENOID (A)	
1-33	ER702238	FILTER LC	
1-34	ER200972	R FUSE ERD2FC 1/4W 33R0G	
1-35	ER318647	R FUSE ERD2FC 1/4W 4R7J	
1-36	ER702368	R FUSE 1/4W 2R2J	
1-37	ER701106	R FUSE 1/4W 330J	
1-38	ER702369	R FUSE 1/4W 820J	
1-39	ES702254	⚠SW PUSH	(U/T, JPN)
1-40	ES702256	⚠SW PUSH	(CEE, SAA)
1-41	ES702258	⚠SW PUSH	(CSA, AAL)
1-42	ES702259	⚠SW PUSH	(UK)
1-43	ES702311	SW LEAF	
1-44	ES702185	SW LEVER	
1-45	ES702232	SW PUSH	
1-46	ES702248	SW PUSH	
1-47	ES702233	SW SLIDE	
1-48	ES702255	SW SLIDE	
1-49	ET308867	TR 2SA1015 O, Y GR	
1-50	ET741903	TR 2SA1015-GR	
1-51	ET328861	TR 2SA562TM O, Y	
1-52	ET702243	TR 2SA950 O	
1-53	ET306720	TR 2SA966 O, Y	
1-54	ET293253	TR 2SC1627 O, Y	
1-55	ET308980	TR 2SC1815 GR	
1-56	ET306719	TR 2SC2236 O, Y	
1-57	ET319636	TR 2SC2240 BL	
1-58	ET702234	TR 2SK246 GR	
1-59	EV741979	R S-FIX 104	
1-60	EV741908	R S-FIX 204	
1-61	EV703279	R S-FIX 503	
1-62	EV702352	VR ROTARY 16 A503-W	
1-63	EZ742142	SENSOR DM101A	
1-64	HE702302	HEAD E	
1-65	HR702301	HEAD R/P	
1-66	MB702269	BELT	
1-67	MB702319	BELT CAPSTAN	
1-68	MB702331	BELT COUNTER	
1-69	MB702320	BELT FWD	
1-70	MC702267	COUNTER	
1-71	MI702316	FLYWHEEL	
1-72	MI702288	IDLER	
1-73	ML702305	ROLLER ASSY	
1-74	MV702279	MAIN CASE	

2. AF P.C BOARD BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
2-1	BA702454	AF PC ASSY (U/T,JPN,UK,SAA)
2-2	BA702455	AF PC ASSY (CSA,CEE)
	AF (A) P.C BOARD BLOCK	
2-IC303,304	EI702237	IC LM1111CN
2-IC305	EI307644	IC NJM4556D
2-IC601	EI702245	IC TC9121P
2-TR001	ET306720	TR 2SA966 O,Y
2-TR002	ET702243	TR 2SA950 O
2-TR003	ET308980	TR 2SC1815 GR
2-TR004	ET306719	TR 2SC2236 O,Y
2-TR005	ET741903	TR 2SA1015-GR
2-TR006	ET308980	TR 2SC1815 GR
2-TR311,312	ET308980	TR 2SC1815 GR
2-TR313to316	ET702234	TR 2SK246 GR
2-TR317,318	ET308980	TR 2SC1815 GR
2-TR321,322	ET319636	TR 2SC2240 BL
2-TR605	ET293253	TR 2SC1627 O,Y
2-TR606	ET308867	TR 2SA1015 O,Y GR
2-TR607	ET293253	TR 2SC1627 O,Y
2-TR608	ET308867	TR 2SA1015 O,Y GR
2-TR610	ET741903	TR 2SA1015-GR
2-TR611	ET308980	TR 2SC1815 GR
2-TR612	ET741903	TR 2SA1015-GR
2-TR613	ET308980	TR 2SC1815 GR
2-TR614,615	ET741903	TR 2SA1015-GR
2-TR616	ET308980	TR 2SC1815 GR
2-TR620	ET308867	TR 2SA1015 O,Y GR
2-TR621	ET308980	TR 2SC1815 GR
2-TR622	ET293253	TR 2SC1627 O,Y
2-TR623	ET308980	TR 2SC1815 GR
2-TR902	ET308867	TR 2SA1015 O,Y GR
2-TR904	ET308867	TR 2SA1015 O,Y GR
2-TR905	ET308980	TR 2SC1815 GR
2-TR950	ET306719	TR 2SC2236 O,Y
2-D001	ED740049	D SILICON W02
2-D002,003	ED702244	D ZENER WZ105
2-D004	ED741904	D SILICON 1S 1555V
2-D005	ED702244	D ZENER WZ105
2-D006	ED702195	D SILICON 1S1555V-TP3
2-D008	ED742019	D SILICON S5277B
2-D308to312	ED702195	D SILICON 1S1555V-TP3
2-D314	ED702195	D SILICON 1S1555V-TP3
2-D601	ED327098	D ZENER H WZ-061
2-D603	ED327098	D ZENER H WZ-061
2-D604	ED742019	D SILICON S5277B
2-D605	ED702195	D SILICON 1S1555V-TP3
2-D606	ED742019	D SILICON S5277B
2-D607to614	ED702195	D SILICON 1S1555V-TP3
2-D615	ED327098	D ZENER H WZ-061
2-D617to621	ED702195	D SILICON 1S1555V-TP3
2-D622	ED327098	D ZENER H WZ-061
2-D631	ED702195	D SILICON 1S1555V-TP3
2-D904to906	ED702195	D SILICON 1S1555V-TP3
2-J1,2	EJ702133	J 6.5
2-J3to6	EJ702182	JACK US4P
2-S1,2	ES702185	SW LEVER
2-LC301,302	ER702238	FILTER LC
2-L301,302	EO702240	COIL CHOKE AF 4.70μH
2-L901	EO702242	COIL OSC
2-R002	ER702368	⚠ R FUSE 1/4W 2R2J
2-R003	ER701107	⚠ R OMF 1W 151J
2-R004	ER330408	⚠ R OMF H 2W 121K
2-R005	ER366030	⚠ R OMF H 1W 100J
2-R015	ER702368	⚠ R FUSE 1/4W 2R2J
2-R017	ER702369	⚠ R FUSE 1/4W 820J
2-R317,318	ER478811	R OMF H 2W 820J
2-R950	ER318647	⚠ R FUSE ERD2FC 1/4W 4R7J
2-C002,003	EC324662	C EC V CUT SM 222M 25DC
2-C950	EC702367	C STY 123J 100DC
2-C956	EC702370	C STY 122J 100DC

3. AF (B) P.C BOARD BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
3-IC301	EI702186	IC NJM4560DX
3-IC302	EI702239	IC NJM4558DX
3-IC901	EI701058	IC TA7137P
3-TR301,302	ET702234	TR 2SK246 GR
3-TR303,304	ET319636	TR 2SC2240 BL
3-TR305to310	ET702234	TR 2SK246 GR
3-TR319,320	ET308980	TR 2SC1815 GR
3-TR323	ET741903	TR 2SA1015-GR
3-TR901	ET308980	TR 2SC1815 GR
3-TR903	ET308980	TR 2SC1815 GR
3-D301,302	ED702236	D SILICON 1S1553V
3-D303to306	ED702195	D SILICON 1S1555V-TP3
3-D307	ED702236	D SILICON 1S1553V
3-D313	ED702195	D SILICON 1S1555V-TP3
3-D901,902	ED702195	D SILICON 1S1555V-TP3
3-D903	ED327098	D ZENER H WZ-061
3-VR301	EV702352	VR ROTARY 16 A503-W
3-SVR301,302	EV703279	R S-FIX 503
3-SVR303,304	EV741979	R S-FIX 104
3-SVR951,952	EV741908	R S-FIX 204
3-L303,304	EO702241	COIL CHOKE AF 47.00μH
3-R903	ER200972	⚠ R FUSE ERD2FC 1/4W 33R0G

4. METER P.C BOARD BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
4-IC701	EI701059	IC TA7612AP
4-TR601to603	ET308980	TR 2SC1815 GR
4-TR604	ET308867	TR 2SA1015 O,Y GR
4-TR701to705	ET308980	TR 2SC1815 GR
4-TR706to708	ET330225	TR 2SC1815 BL
4-TR709,710	ET328861	TR 2SA562TM O,Y
4-TR711	ET308980	TR 2SC1815 GR
4-D701to706	ED702195	D SILICON 1S1555V-TP3
4-D707,708	ED702704	D GERMA MPX-B
4-SVR701	EV703279	R S-FIX 503
4-R001	ER701106	⚠ R FUSE 1/4W 330J
4-R714	ER558213	R OMF H 1W 181J

5. KEY P.C BOARD BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
5-D628	ED322247	D LED SLP-151D RED
5-D629	ED322215	D LED SLP-251D GRN
5-D630	ED702247	D LED SLP-451D YLW
5-S5to11	ES702248	SW PUSH

6. SW (A) P.C BOARD BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
6-S4	ES702232	SW PUSH

7. SW (B) P.C BOARD BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
7-S3	ES702233	SW SLIDE

8. PHONE P.C BOARD BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
8-J7	EJ702159	J 6.5-ST

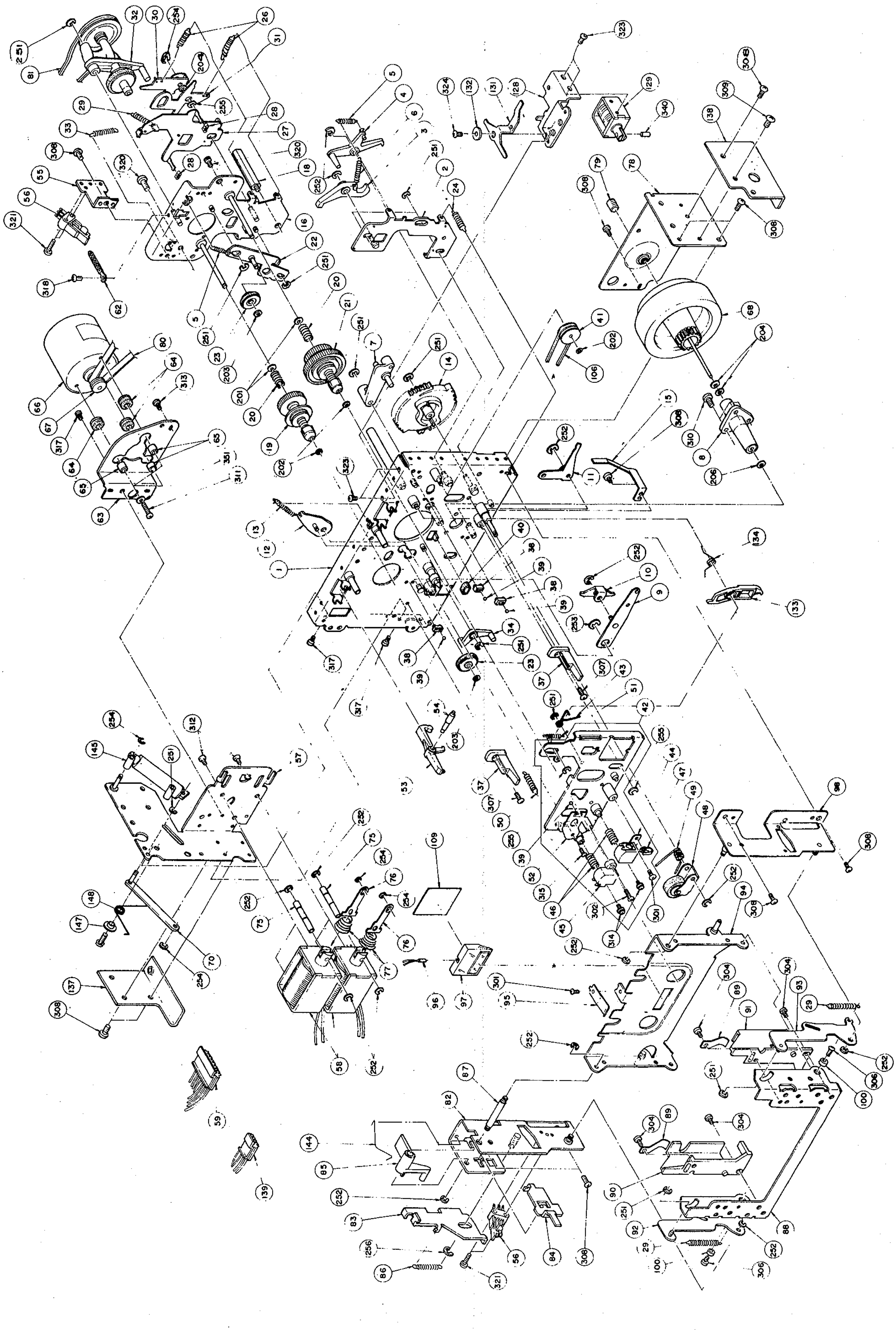
9. SENSOR P.C BOARD BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
9-EL601	EZ742142	SENSOR DM101A

10. POWER P.C BOARD BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
10-S14	ES702254	⚠ SW PUSH (U/T,JPN)
10-S14	ES702258	⚠ SW PUSH (CSA,AAL)
10-S14	ES702256	⚠ SW PUSH (CEE,SAA)
10-S14	ES702259	⚠ SW PUSH (UK)
10-C001	EC702201	⚠ C CE 103-P400X (U/T,CEE,UK,SAA)
10-C001	EC702422	⚠ C CE X 103Z 250DC (JPN)
10-C001	EC702205	⚠ C CE 103-P125XS (CSA,AAL)
10-F001	EF702260	⚠ FUSE 0.20A (T) (UK)

11. MECHA ASSEMBLY BLOCK



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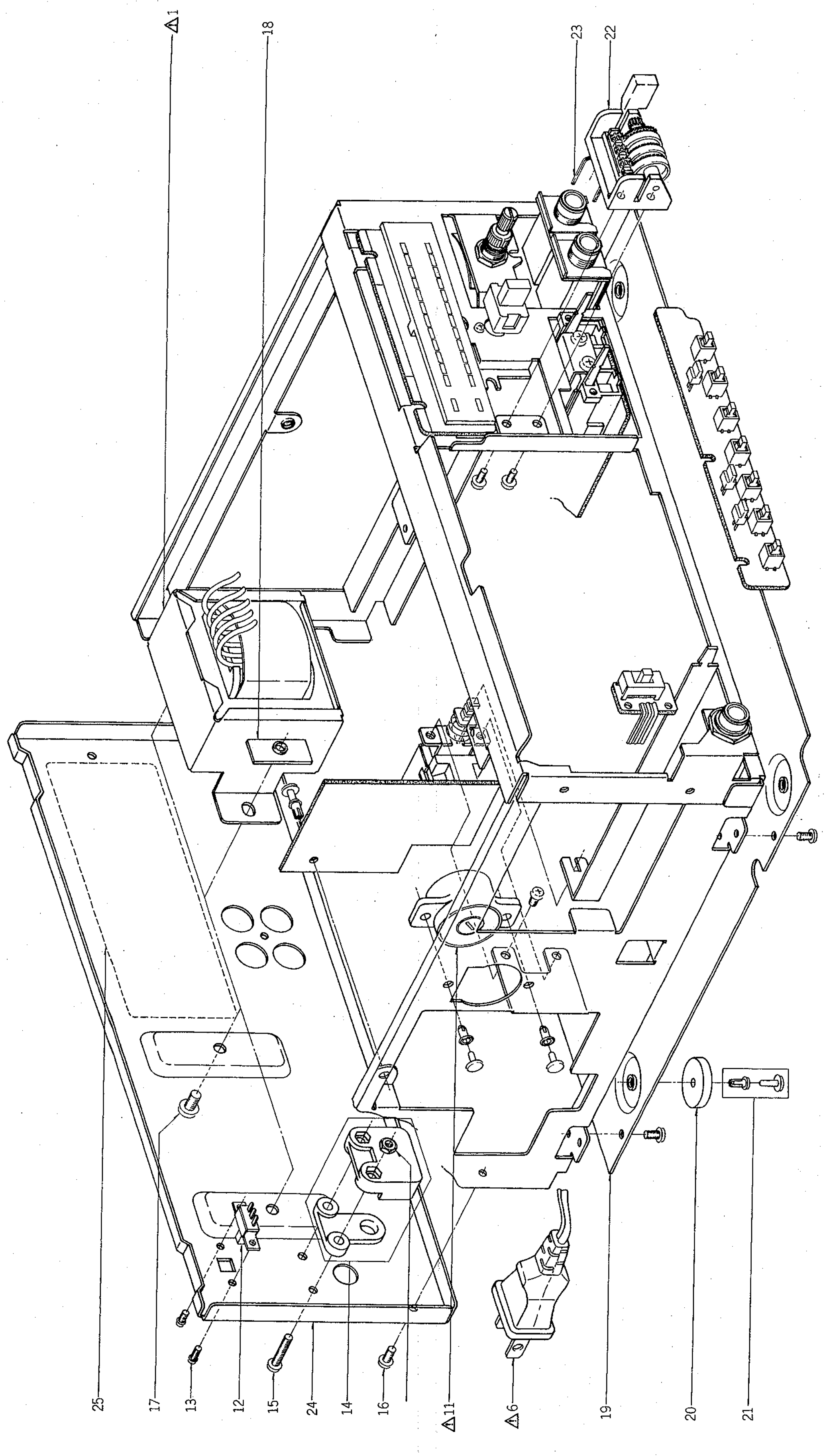
MECHA ASSEMBLY BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
11-4	ML702276	LEVER STOPPER
11-5	ZG702277	SP PULL
11-6	ZG702278	SP PULL
11-8	MV702279	MAIN CASE
11-13	ZG702280	SP PULL
11-14	MZ702282	GEAR
11-15	ZG702283	SP PLATE
11-16	TC702284	CHASSIS SUB ASSY
11-19	BR702285	SUPPLY REEL TABLE ASSY
11-20	ZG702286	SP PUSH
11-21	BR702287	TAKE UP REEL TABLE ASSY
11-23	MI702288	IDLER
11-24	ZG702289	SP PULL
11-26	ZG702290	SP PULL
11-28	MZ702291	CUSHION BRAKE
11-29	ZG702293	SP PULL
11-32	BZ702294	PULLEY ASSY
11-33	ZG702295	SP PULL
11-37	TC702296	HOLDER CASSETTE
11-38	TC702297	HOLDER BALL
11-39	MV357208	STEEL BALL D2
11-40	MB702298	RUBBER BUSH
11-41	MR702299	PULLEY W
11-42	BH702453	HEAD BRACKET ASSY
11-43	ZG702300	SP TORSION
11-44	HR702301	HEAD R/P
11-45	HE702302	HEAD E
11-46	ZG702304	SP PUSH
11-48	ML702305	ROLLER ASSY
11-49	ZG702306	SP TORSION
11-50	ZG702307	SP PULL
11-51	ZG702308	SP PULL
11-52	ZG702309	SP PLATE
11-53	ML702310	LEVER REC SAFETY
11-56	ES702311	SW LEAF
11-58	EP702312	⚠ SOLENOID (A)
11-64	MB702313	CUSHION
11-65	MH702315	COLLAR MOTOR
11-66	MB702452	⚠ MOTOR (INCLUED 67)
11-68	MI702316	FLYWHEEL
11-77	ZG702317	SP PUSH
11-79	ZS702318	HOLD SCREW
11-80	MB702319	BELT CAPSTAN
11-81	MB702320	BELT FWD
11-85	ML702321	LEVER EJECT
11-86	ZG702322	SP PULL
11-89	ZG702323	SP PLATE
11-90	TC702324	CASSETTE POCKET (L)
11-91	TC702326	CASSETTE POCKET (R)
11-94	BZ702327	LID HOUSING ASSY
11-95	ZG702328	SP PLATE
11-96	EL702329	PL CORD 12.0V 60MA
11-97	TC702330	LAMP WINDOW
11-106	MB702331	BELT COUNTER
11-109	TC702332	SEAL LAMP
11-116	ZW702333	SPACER HEAD
11-129	EP702334	⚠ SOLENOID
11-132	ZW702335	COLLAR UP LEVER
11-134	ZG702337	SP TORSION
11-144	ZG702338	SP TORSION
11-145	TC702339	AIR DAMPER ASSY
11-147	ZW702340	COLLAR DAMPER
11-148	ZG702341	SP TORSION
11-201	ZW313827	PW36x070x025PSL
11-202	ZW364342	PW17x032x025PSL
11-203	ZW305546	PW21x040x025PSL
11-204	ZW329448	PW26x045x013PSL
11-206	ZS200615	PW26x060x030NYL
11-251	ZW410051	RING E 250SUP CMT
11-252	ZW329299	RING E 200SUP CMT
11-253	ZW270123	RING E400SUP CMT
11-254	ZW356657	RING E 150SUP CMT
11-255	ZW270101	RING E300SUP CMT
11-256	ZW270101	RING E300SUP CMT
11-301	ZS460440	PAN20x04STL CMT
11-302	ZS608106	PAN20x06STL CMT
11-304	ZS608477	PAN30x04STL BNI
11-314	ZS608106	PAN20x06STL CMT

12. ASSEMBLY BLOCK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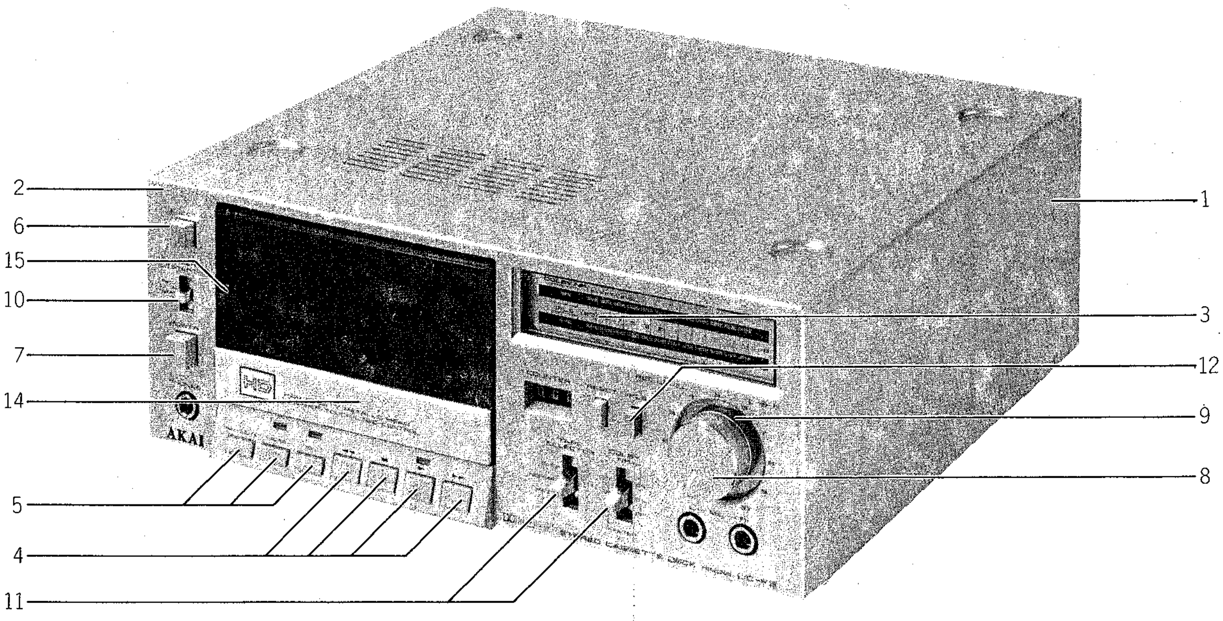
ASSEMBLY BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
12-1	BT702249	⚠ TRANS POWER (U/T)
12-2x	BT702250	⚠ TRANS POWER (JPN)
12-3x	BT702251	⚠ TRANS POWER (CSA, AAL)
12-4x	BT702252	⚠ TRANS POWER (CEE)
12-5x	BT702253	⚠ TRANS POWER (UK,SAA)
12-6	EW702207	⚠ AC CORD EP (U/T,CSA,AAL)
12-7x	EW704798	⚠ POWER CORD. AT-K02J (JPN)
12-8x	EW702208	⚠ AC CORD E2 (CEE)
12-9x	EW702211	⚠ AC CORD 24/02x2000-0 (UK)
12-10x	EW702210	⚠ AC CORD A2 (SAA)
12-11	ES741998	⚠ SW SLIDE AC3750 (U/T)
12-12	ES702255	SW SLIDE
12-13	ZS390971	BID20x04STL BNI
12-14	EZ702228	CORD CLAMP ASSY
12-15	EZ553173	BID30x15STL BNI
12-16	ZW273835	N30BRS NI3 1
12-17	ZS537006	BID40x08STL BNI
12-18	ZW413188	N40STL CMT 1
12-19	SP702264	COVER BOTTOM
12-20	SA324129	FOOT
12-21	ZS702265	RV SPECIAL
12-22	MC702267	COUNTER
12-23	MB702269	BELT
12-24	SP702266	PANEL REAR
12-25	SM702343	LABEL MAIN (U/T)
12-26x	SM702344	LABEL MAIN (JPN)
12-27x	SM702346	LABEL MAIN (CSA,AAL)
12-28x	SM702348	LABEL MAIN (CEE)
12-29x	SM702345	LABEL MAIN (UK,SAA)

13. FINAL ASSEMBLY BLOCK



FINAL ASSEMBLY BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
13-1	SP702263	COVER UPPER
13-2	BD702456	PANEL FRONT ASSY
13-3	BD702457	PLATE LED ASSY
13-4	SK-702261	KNOB PUSH
13-5	SK702262	KNOB PUSH
13-6	SB316316	BUTTON (B)
13-7	SB324039	BUTTON (B)
13-8	SK702271	KNOB VR-L
13-9	SK702272	KNOB VR-R
13-10	SK702273	KNOB SLIDE
13-11	SK702274	KNOB LEVER
13-12	SK702458	BUTTON PUSH ASSY
13-13x	SZ702275	COVER CASSETTE
13-14	BD702459	PANEL ASSY
13-15	ZS702342	SPECIAL SCREW

INDEX

1. MODEL UC-K3/J/L

Parts No.	Ref.No. & Symbol No.
BAA3014A030A	2-1
BAA3014A030B	2-2
BAA3014A030C	2-3
BAA3014A030D	2-4
BAA3014A030E	2-5
BDB320249A	9-1
BDB320249E	9-3x
BF313161	8-43
BT312344	8-14x
BT312350	8-15x
BT312391	8-16x
BT312392	8-17x
BT312393	8-13
EC201253	3-C99
EC314688	8-5x
EC314996	3-C75
EC320548	3-C73
EC320548	3-C70,71
EC320548	8-4
EC322983	3-C40
EC322983	3-C39
EC323073	3-C40
EC323073	3-C39
EC324109	3-C42,43
EC327382	8-6x
EC328862	3-C33
EC616342	3-VC3,4
EC616342	3-VC1,2
ED200469	3-D1 to 8
ED200469	3-D10
ED200469	5-D1 to 6
ED200469	5-D8,9
ED200469	5-D10
ED200469	6-D1,2
ED200469	7-D1 to 6
ED200469	7-D8 to 11
ED224526	3-D13
ED313284	3-D9
ED322184	4-D3
ED322215	4-D2
ED322238	3-D11
ED322247	4-D1
ED322774	6-D4
ED323216	3-D12
ED325080	5-D7
ED325080	6-D3
ED325080	7-D7
EE312527	3-1
EE312528	3-2
EE312738	8-29
EE313160	8-30x
EF300590	8-51x
EF308848	8-50x
EF308933	8-49x
EF309389	8-48
EI293185	3-IC4
EI312443	3-IC3
EI315491	4-IC1
EI322248	3-IC1
EI323231	6-x1
EI328849	6-IC1
EI328850	6-IC2
EI650597	3-IC2
EJ202214	3-J1
EJ301513	8-38x
EJ312691	8-27
EM328848	6-IN1
EO201252	3-T7
EO304650	3-L3
EO307186	3-T5
EO322240	3-T6
EO328137	3-L1,2
EO328137	6-L1 to 3
EO328854	3-T1
ER293398	3-T2
ER293398	3-T4
ER307201	3-FL1,2
ER307204	3-T3
ER324185	6-R35
ER324186	6-R38
ER324337	3-R13,14
ER324337	3-R31,32
ER324337	3-R65,66
ER324337	3-R44,45
ER324337	3-R73,74
ER324337	3-R7,8
ER324480	3-R63,64
ER328855	3-FL3,4
ES310839	8-1
ES312415	3-SW1
ES312416	3-SW1
ES312427	3-SW1
ES315159	8-2x
ES665875	8-3x
ET316171	6-TR2
ET316643	3-TR2 to 9
ET316643	5-TR1
ET316643	7-TR1 to 3
ET323232	3-TR10
ET452531	3-TR11
ET618873	3-TR1
ET618873	6-TR1
EV315416	6-VR1,2
EV321635	7-VR1
EV321682	3-VR4
EV322416	3-VR1,2
EV427858	3-VR3
EW305691	8-33x
EW306427	8-32x
EW306428	8-31
EW315767	8-34x
EW322401	8-35x
MI313200	8-46
MR308836	8-10
MZ307170	8-11
SA324129	8-8
SB324039	9-6
SK313564A	9-7
SK320300A	9-8
SPB320249C	9-2x
SPB602047	9-9
SP320042A	8-19
SP320042B	8-21x
SP320042C	8-22x
SP320042D	8-23x
SP320042E	8-24x
SP320042F	8-20x
SP320042G	8-25x
SP320042H	8-26x
SP320894	8-7x
SZ313800	8-42x
SZ631945	8-36
TA307160	8-47
ZS265814	8-9x
ZS308673	8-37x
ZS319460	8-39x
ZS319460	9-11x
ZS321298	8-18x
ZS406416	9-4x
ZS498273	9-5x
ZS609120	8-40x
ZS609120	8-12x
ZS609120	9-10x
ZW231030	8-28
ZW281463	8-41x
ZW305013	8-52x
ZW436026	8-44x
ZW554624	8-45x

2. MODEL UC-U3E

Parts No.	Ref.No. & Symbol No.
BA702229	3-1
BA702230	2-1
BC702212	5-1
BD702227	5-3
BT702197	4-1
BT702203	4-2x
BT702206	4-3x
BT702209	4-4x
EC303622	2-C003,004
EC702189	2-C303,304
EC702190	2-C309,310
EC702190	2-C513,514
EC702192	2-C301,302
EC702192	2-C511,512
EC702192	2-C501,502
EC702192	2-C517,518
EC702201	4-15
EC702205	4-16x
ED322215	2-D302 to 304
ED322247	2-D301
ED702188	3-D601
ED702188	3-D606
ED702193	2-D001
ED702194	2-D002
ED702195	3-D611,612
ED702196	2-D003
EF702200	4-13
EF709931	4-14x
EI307644	3-IC602
EI702184	2-IC501,502
EI702186	2-IC301
EI702187	3-IC601
EJ702175	2-J3
EJ702181	2-J2
EJ702182	2-J4
EJ702183	2-J5
EJ702198	4-10
EJ702216	4-21
ER309419	2-R317,318
ER624756	2-R001
ER658091	2-R521,522
ER658124	2-R513,514
ES702173	2-S5
ES702174	2-S4
ES702199	4-11
ES702204	4-12x
ET308976	2-TR501
ET308976	3-TR601 to 604
EV702176	2-VR501
EV702177	2-VR502
EV702179	2-VR301
EW702207	4-6x
EW702208	4-7x
EW702210	4-9x
EW702211	4-8x
EW711955	4-5
EZ702228	4-22
SA324129	5-5x
SB324039	5-9
SK313564A	5-10
SK320467A	5-8
SK324127	5-6
SK705087	5-7
SP702214	5-4x
SP702215	4-17
SP702217	4-18x
SP702218	4-20x
SP702219	4-19x
ZS702231	5-2x

3. MODEL UC-U3

Parts No.	Ref. No. & Symbol No.	Parts No.	Ref. No. & Symbol No.	Parts No.	Ref. No. & Symbol No.	Parts No.	Ref. No. & Symbol No.	Parts No.	Ref. No. & Symbol No.
BAA2010A040A	4-1	ED330218	2-D2	ER314664	5-R4	ET322775	3-TR1	ZS325495	7-43x
BAA2011A030A	5-1	ED330219	2-D3,4	ER316802	5-R31	ET322778	2-TR2,3	ZS406416	8-8x
BAA2011A040A	6-1	EF306951	7-35	ER321153	2-R29	ET323366	2-TR4	ZS417216	7-28x
BAA2011A070A	2-1	EF306951	7-41x	ER322331	4-R9,10	EV307993	4-VR1	ZS447761	7-16
BAA2011A070B	2-2	EF306956	7-38x	ER322331	5-R9,10	EV322984	4-VR4,5	ZS447840	8-9x
BAA2011A120A	3-1	EF311839	7-40x	ER322332	2-R22	EV325629	4-VR2	ZS609120	8-11x
BAA2011A120B	3-2	EF323080	7-36x	ER322332	2-R25	EV325630	4-VR3	ZW305013	7-44x
BDB320480B	8-5	EF325683	7-37x	ER322361	2-R7	EV475470	3-VR1	ZW550642	7-27x
BT308119	7-29	EF326613	7-34	ER322361	3-R7	EW305691	7-20x		
BT308135	7-30x	EF326639	7-33	ER322362	5-R5	EW306427	7-19		
BT328769	7-31x	EF326639	7-39x	ER322363	5-R6	EW306428	7-21x		
BZA2010A030A	7-11x	EI200938	4-IC2	ER322591	2-R3	EZ225145	7-18		
EC313534	3-C19	EI200938	4-IC3	ER322591	2-R5	SA324129	7-26		
EC314688	7-10x	EI201446	5-IC1	ER322591	3-R3	SB324039	8-7		
EC320548	6-C3	EI308138	7-5	ER322591	3-R5	SE320481B	8-6x		
EC320548	6-C4	EI322588	4-IC1	ER323074	4-R28,29	SKB324210	8-14		
EC320548	7-9x	EI329612	5-IC2	ER323074	4-R53	SK313564A	8-1		
EC322358	6-C1	EJ322582	7-17	ER323074	4-R51	SK320467A	8-13		
EC322358	6-C2	EJ323143	7-25	ES310839	7-8x	SK320566A	8-3		
EC322364	5-C6	EJ323144	7-24	ES315159	7-6	SK320646A	8-12		
EC322377	5-C7	EJ326185	7-23	ES318595	4-SW1	SK320649A	8-15		
EC326583	2-C30	EJ329265	7-3	ES322407	5-SW1	SPB320569A	8-10		
EC326583	6-C5	EJ329610	7-15	ES665875	7-7x	SP320568D	7-13x		
ED200213	6-D1	EJ330544	4-J1	ET219857	5-TR1	SP320568E	7-14x		
ED200468	5-D1	EO650823	2-L1	ET293253	4-TR2	SP320568G	7-12		
ED200469	3-D5,6	EO650823	3-L1	ET307195	4-TR1	SZ631945	7-22		
ED214457	2-D1	ER302241	2-R28	ET307195	4-TR3	TA200757	8-2x		
ED322247	7-1	ER308028	7-4x	ET310148	2-TR3	TA320567	8-4x		
ED322773	7-2	ER308875	2-R30	ET322598	2-TR6	ZS300519	7-32x		
ED324912	2-D5	ER308875	3-R8	ET322775	2-TR1	ZS319460	7-42		

4. MODEL UC-U4

Parts No.	Ref. No. & Symbol No.	Parts No.	Ref. No. & Symbol No.	Parts No.	Ref. No. & Symbol No.	Parts No.	Ref. No. & Symbol No.	Parts No.	Ref. No. & Symbol No.
BAA2010A040A	4-1	ED330219	2-D3,4	ER321153	2-R21	ET322775	6-TR4	ZS325495	8-36x
BAA2010A050A	5-1	EF306952	8-29	ER322331	4-R9,10	ET322778	3-TR2	ZS406416	9-9x
BAA2010A070A	7-1	EF306957	8-32x	ER322331	5-R9,10	ET323366	2-TR2	ZS417216	8-24x
BAA2010A100A	2-1	EF308848	8-34x	ER322332	2-R17	ET327162	6-TR1	ZS435273	8-27x
BAA2010A150A	3-1	EF309389	8-31	ER322332	2-R20	ET327162	6-TR3	ZS447761	8-15
BDB320480A	9-6	EF325683	8-33x	ER322362	5-R5	EV307993	4-VR1	ZS447840	9-10x
BT308117	8-25	EF326613	8-30	ER322363	5-R6	EV322984	4-VR4,5	ZS522865	8-13x
BT308118	8-26x	EI200938	4-IC2	ER322591	2-R3	EV325629	4-VR2	ZS609120	9-12x
BZA2010A030A	8-10x	EI200938	4-IC3	ER322591	2-R5	EV325630	4-VR3	ZW305013	8-37x
EC200811	7-C1	EI201446	5-IC1	ER322591	3-R3	EV475470	3-VR1	ZW413267	8-28
EC200811	7-C2	EI308137	8-5	ER322591	3-R5	EW305691	8-19x	ZW550642	8-23x
EC314688	8-9x	EI322588	4-IC1	ER323074	4-R28,29	EW306427	8-18		
EC320548	7-C3, 4	EI323564	3-IC1	ER323074	4-R51	EZ225145	8-17		
EC320548	8-8x	EI329612	5-IC2	ER323074	4-R53	SA324129	8-22		
EC322364	5-C6	EJ322582	8-16	ER329070	3-R27	SB324039	9-8		
EC322377	5-C7	EJ323143	6-12,3	ER329616	2-R7	SE320481A	9-7x		
EC324379	6-C7	EJ323144	6-J1	ER329616	3-R7	SKB324210	9-15		
EC326583	2-C27	EJ326185	8-21	ES315159	8-6	SK313564A	9-1		
EC326583	7-C5	EJ329265	8-3	ES318595	4-SW1	SK320467A	9-14		
ED200468	5-D1	EJ329610	8-14	ES318596	5-SW1	SK320566A	9-3		
ED200469	2-D1	EJ330544	4-J1	ES679566	8-7x	SK320646A	9-13		
ED200469	3-D1,2	EO650823	2-L1	ET219857	5-TR1	SK320649A	9-16		
ED200469	3-D4	EO650823	3-L1	ET293253	4-TR2	SPB320569A	9-11		
ED200469	3-D5,6	EP307992	3-RL1	ET307195	4-TR1	SP320568B	8-12x		
ED200749	7-D1	ER302241	2-R14	ET307195	4-TR3	SP320568F	8-11		
ED214457	3-D3	ER308028	8-4x	ET310148	2-TR3	SZ631945	8-20		
ED322247	8-1	ER308875	2-R10	ET322353	6-TR2	TA200757	9-2x		
ED322773	8-2	ER308875	3-R10	ET322598	2-TR4	TA200757	9-4x		
ED324912	2-D5	ER314664	5-R4	ET322775	2-TR1	TA320567	9-5x		
ED330218	2-D2	ER316802	5-R31	ET322775	3-TR1	ZS319460	8-35		

5. UC-F3

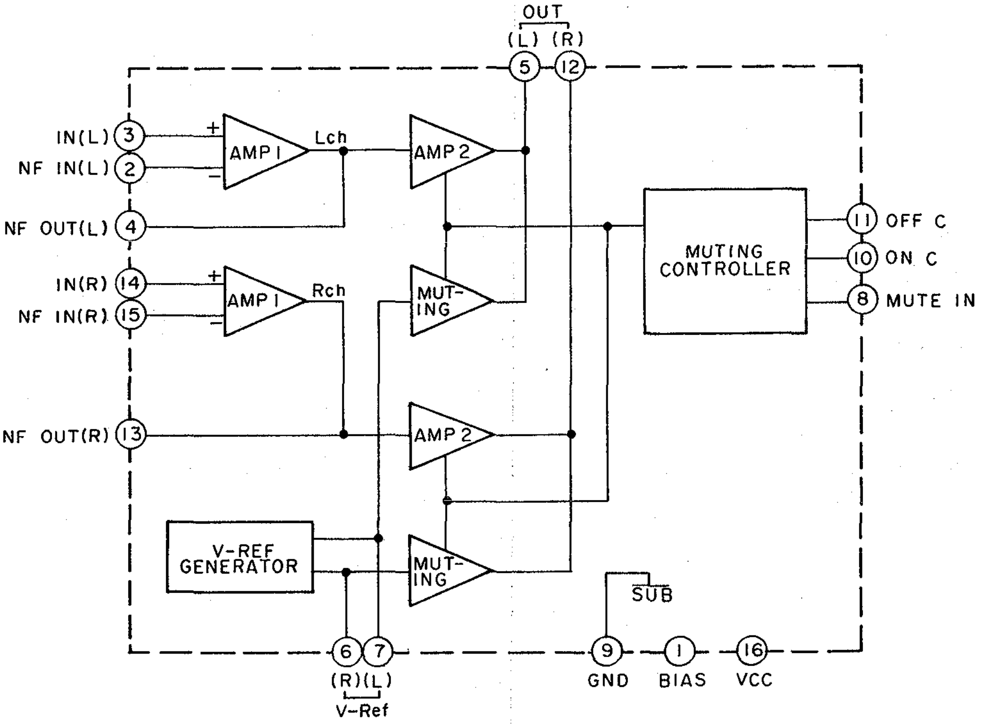
Parts No.	Ref. No. & Symbol No.	Parts No.	Ref. No. & Symbol No.	Parts No.	Ref. No. & Symbol No.	Parts No.	Ref. No. & Symbol No.	Parts No.	Ref. No. & Symbol No.
BA702454	2-1	ED742019	2-D604	ET308867	2-TR620	MB702313	11-64	ZG702290	11-26
BA702455	2-2	ED742019	2-D606	ET308867	2-TR902	MB702319	11-80	ZG702293	11-29
BD702456	13-2	EF702260	10-F001	ET308867	2-TR904	MB702320	11-81	ZG702295	11-33
BD702457	13-3	EI307644	2-IC305	ET308867	4-TR604	MB702331	11-106	ZG702300	11-43
BD702459	13-14	EI701058	3-IC901	ET308980	2-TR003	MC702267	12-22	ZG702304	11-46
BH702453	11-42	EI701059	4-IC701	ET308980	2-TR006	MH702315	11-65	ZG702306	11-49
BM702452	11-66	EI702186	3-IC301	ET308980	2-TR311,312	MI702288	11-23	ZG702307	11-50
BR702285	11-19	EI702237	2-IC303,304	ET308980	2-TR317,318	MI702316	11-68	ZG702308	11-51
BR702287	11-21	EI702239	3-IC302	ET308980	2-TR611	ML702276	11-4	ZG702309	11-52
BT702249	12-1	EI702245	2-IC601	ET308980	2-TR613	ML702305	11-48	ZG702317	11-77
BT702250	12-2x	EJ702133	2-J1,2	ET308980	2-TR616	ML702310	11-53	ZG702322	11-86
BT702251	12-3x	EJ702159	8-J7	ET308980	2-TR621	ML702321	11-85	ZG702323	11-89
BT702252	12-4x	EJ702182	2-J3to6	ET308980	2-TR623	MR702299	11-41	ZG702328	11-95
BT702253	12-5x	EL702329	11-96	ET308980	2-TR905	MV357208	11-39	ZG702337	11-134
BZ702294	11-32	EO702240	2-L301,302	ET308980	3-TR319,320	MV702279	11-8	ZG702338	11-144
BZ702327	11-94	EO702241	3-L303,304	ET308980	3-TR901	MZ702282	11-14	ZG702341	11-148
EC324662	2-C002,003	EO702242	2-L901	ET308980	3-TR903	MZ702291	11-28	ZS200615	11-206
EC702201	10-C001	EP702312	11-58	ET308980	4-TR701to705	SA324129	12-20	ZS390971	12-13
EC702205	10-C001	EP702334	11-129	ET308980	4-TR711	SB316316	13-6	ZS460440	11-301
EC702367	2-C950	ER200972	3-R903	ET308980	4-TR601to603	SB324039	13-7	ZS537006	12-17
EC702370	2-C956	ER318647	2-R950	ET319636	2-TR321,322	SK702261	13-4	ZS608106	11-302
EC702422	10-C001	ER330408	2-R004	ET319636	3-TR303,304	SK702262	13-5	ZS608106	11-314
ED322215	5-D629	ER366030	2-R005	ET328861	4-TR709,710	SK702271	13-8	ZS608477	11-304
ED322247	5-D628	ER478811	2-R317,318	ET330225	4-TR706to708	SK702272	13-9	ZS702265	12-21
ED327098	2-D601	ER558213	4-R714	ET702234	2-TR313to316	SK702273	13-10	ZS702318	11-79
ED327098	2-D603	ER701106	4-R001	ET702234	3-TR301,302	SK702274	13-11	ZS702342	13-15
ED327098	2-D615	ER701107	2-R003	ET702234	3-TR305to310	SK702458	13-12	ZW270101	11-255
ED327098	2-D622	ER702238	2-LC301,302	ET702243	2-TR002	SM702343	12-25	ZW270101	11-256
ED327098	3-D903	ER702368	2-R002	ET741903	2-TR005	SM702344	12-26x	ZW270123	11-253
ED702195	2-D006	ER702368	2-R015	ET741903	2-TR610	SM702345	12-29x	ZW273835	12-16
ED702195	2-D308to312	ER702369	2-R017	ET741903	2-TR612	SM702346	12-27x	ZW305546	11-203
ED702195	2-D314	ES702185	2-S1,2	ET741903	2-TR614,615	SM702348	12-28x	ZW313827	11-201
ED702195	2-D605	ES702232	6-S4	ET741903	3-TR323	SP702263	13-1	ZW329299	11-252
ED702195	2-D607to614	ES702233	7-S3	EV702352	3-VR301	SP702264	12-19	ZW329448	11-204
ED702195	2-D617to621	ES702248	5-S5to11	EV703279	3-SVR301,302	SP702266	12-24	ZW356657	11-254
ED702195	2-D631	ES702254	10-S14	EV703279	4-SVR701	SZ702275	13-13x	ZW364342	11-202
ED702195	2-D904to906	ES702255	12-12	EV741908	3-SVR951,952	TC702284	11-16	ZW410051	11-251
ED702195	3-D303to306	ES702256	10-S14	EV741979	3-SVR303,304	TC702296	11-37	ZW413188	12-18
ED702195	3-D313	ES702258	10-S14	EW702207	12-6	TC702297	11-38	ZW702333	11-116
ED702195	3-D901,902	ES702259	10-S14	EW702208	12-8x	TC702324	11-90	ZW702335	11-132
ED702195	4-D701to706	ES702311	11-56	EW702210	12-10x	TC702326	11-91	ZW702340	11-147
ED702236	3-D301,302	ES741998	12-11	EW702211	12-9x	TC702330	11-97		
ED702236	3-D307	ET293253	2-TR605	EW704798	12-7x	TC702332	11-109		
ED702244	2-D002,003	ET293253	2-TR607	EZ553173	12-15	TC702339	11-145		
ED702244	2-D005	ET293253	2-TR622	EZ702228	12-14	ZG702277	11-5		
ED702247	5-D630	ET306719	2-TR004	EZ742142	9-EL601	ZG702278	11-6		
ED702704	4-D707,708	ET306719	2-TR950	HE702302	11-45	ZG702280	11-13		
ED740049	2-D001	ET306720	2-TR001	HR702301	11-44	ZG702283	11-15		
ED741904	2-D004	ET308867	2-TR606	MB702269	12-23	ZG702286	11-20		
ED742019	2-D008	ET308867	2-TR608	MB702298	11-40	ZG702289	11-24		

SECTION 6

SCHEMATIC DIAGRAM

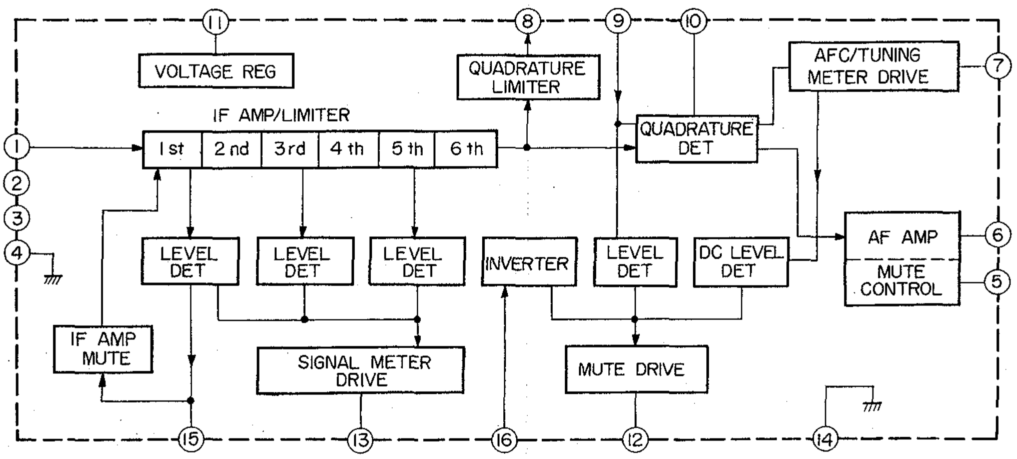
1. SCHEMATIC DIAGRAM OF ICs
2. UC-K3 NO. 1621040A SCHEMATIC DIAGRAM
3. UC-K3J NO. 1621042A SCHEMATIC DIAGRAM
4. UC-K3L NO. 1621041A SCHEMATIC DIAGRAM
5. UC-U3E NO. 1621038A SCHEMATIC DIAGRAM
6. UC-U3 NO. 1621037A SCHEMATIC DIAGRAM
7. UC-U4 NO. 1621039A SCHEMATIC DIAGRAM
8. UC-F3 NO. 1621036A SCHEMATIC DIAGRAM

KB4438



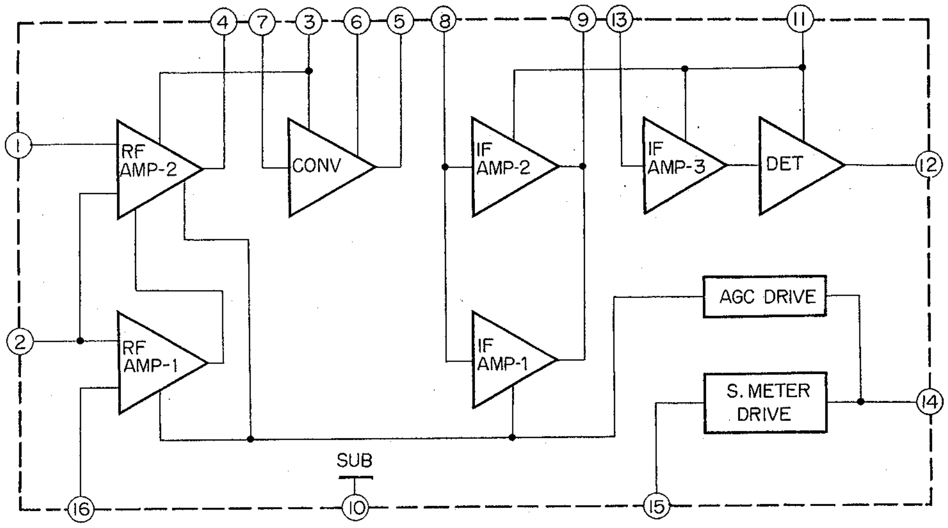
OUT
(L) (R)
IN(L)
NF IN(L)
NF OUT(L)
IN(R)
NF IN(R)
NF OUT(R)
AMP 1
Lch
AMP 2
Rch
MUT-ING
MUTING CONTROLLER
OFF C
ON C
MUTE IN
V-REF GENERATOR
SUB
(R)(L)
V-Ref
GND
BIAS
VCC

LA1231N

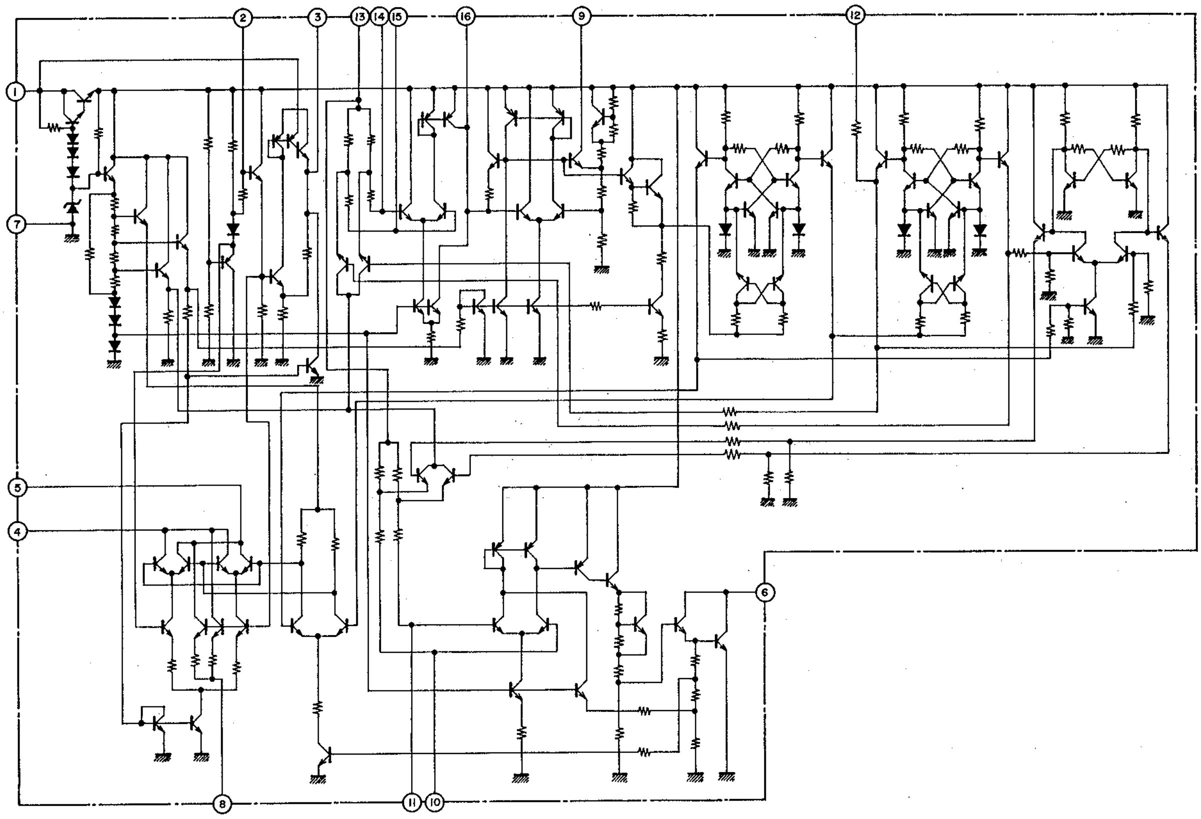


VOLTAGE REG
QUADRATURE LIMITER
AFC/TUNING METER DRIVE
IF AMP/LIMITER
1st
2nd
3rd
4th
5th
6th
QUADRATURE DET
LEVEL DET
INVERTER
DC LEVEL DET
AF AMP
MUTE CONTROL
IF AMP MUTE
SIGNAL METER DRIVE
MUTE DRIVE

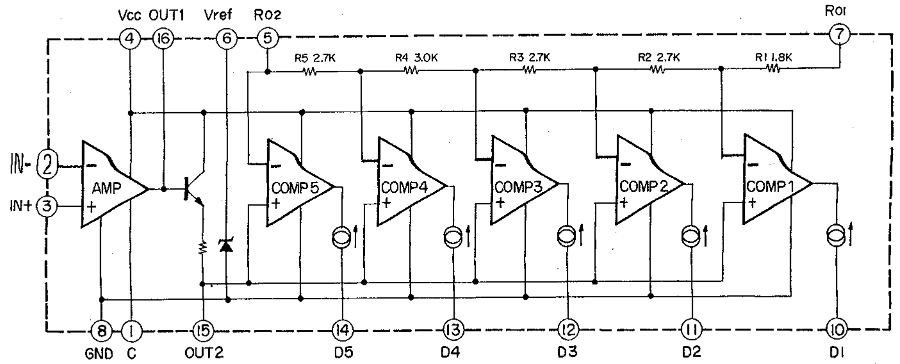
LA1240


4
7
3
6
5
8
9
13
11
1
RF AMP-2
CONV
IF AMP-2
IF AMP-3
DET
12
AGC DRIVE
2
RF AMP-1
IF AMP-1
S. METER DRIVE
14
SUB
16
10
15

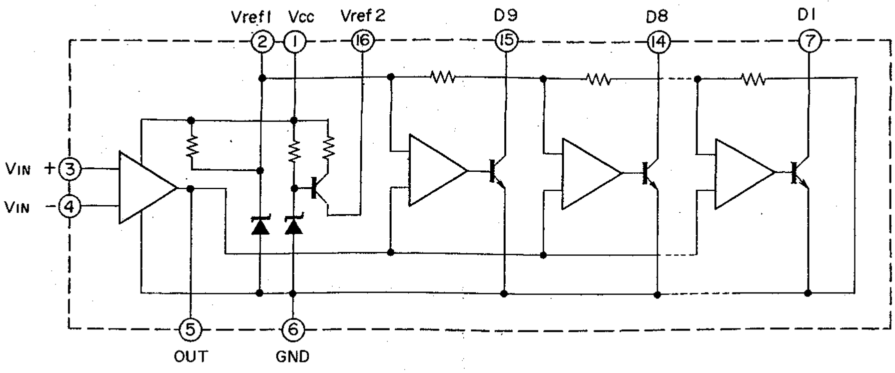
LA3350S


2
3
13
14
15
16
9
12
1
7
5
4
6
8
11
10

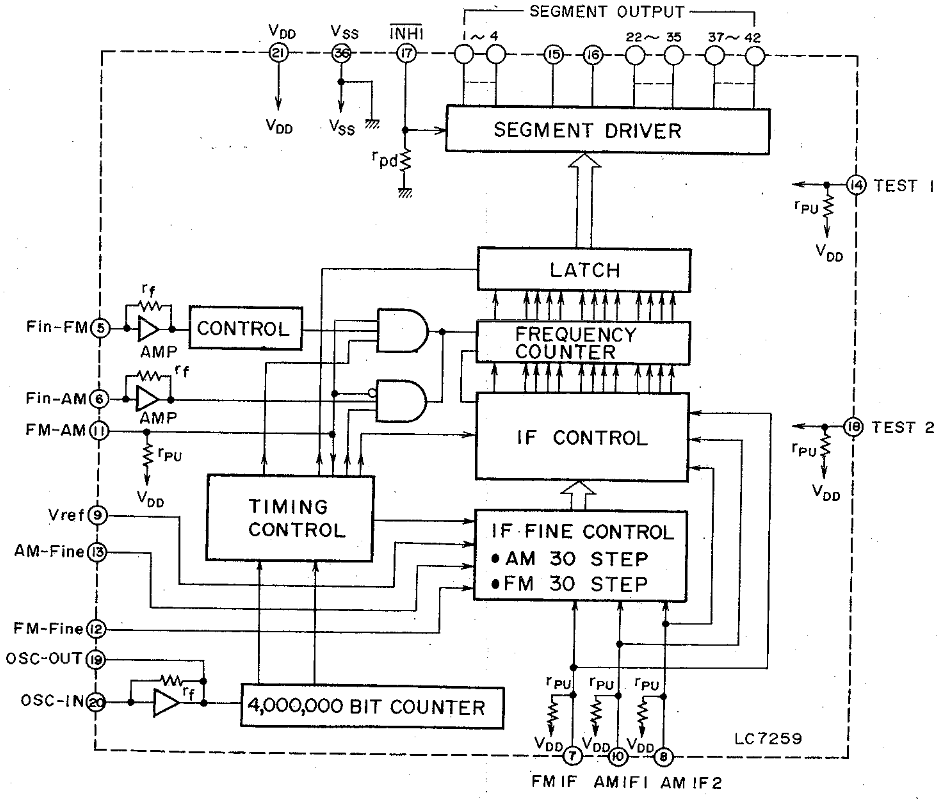
LB1405S


Vcc
OUT1
Vref
R02
R01
4
16
6
5
7
R5 2.7K
R4 3.0K
R3 2.7K
R2 2.7K
R1 1.8K
IN- 2
IN+ 3
AMP
COMP5
COMP4
COMP3
COMP2
COMP1
8
1
15
14
13
12
11
10
GND
C
OUT2
D5
D4
D3
D2
D1

LB1409

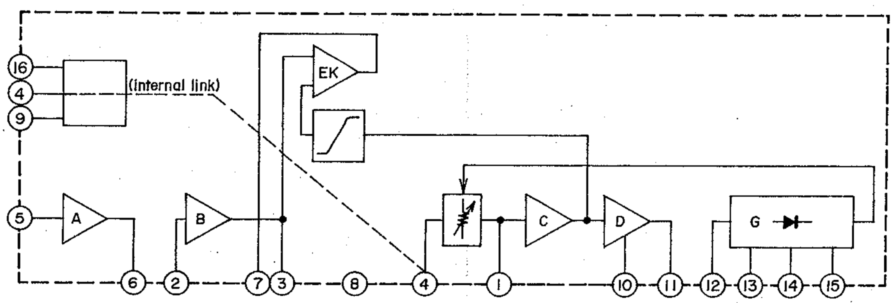

Vref1
Vcc
Vref2
D9
D8
D1
②
①
⑯
⑮
⑭
⑦
VIN +③
VIN −④
⑤
⑥
OUT
GND

LC7259

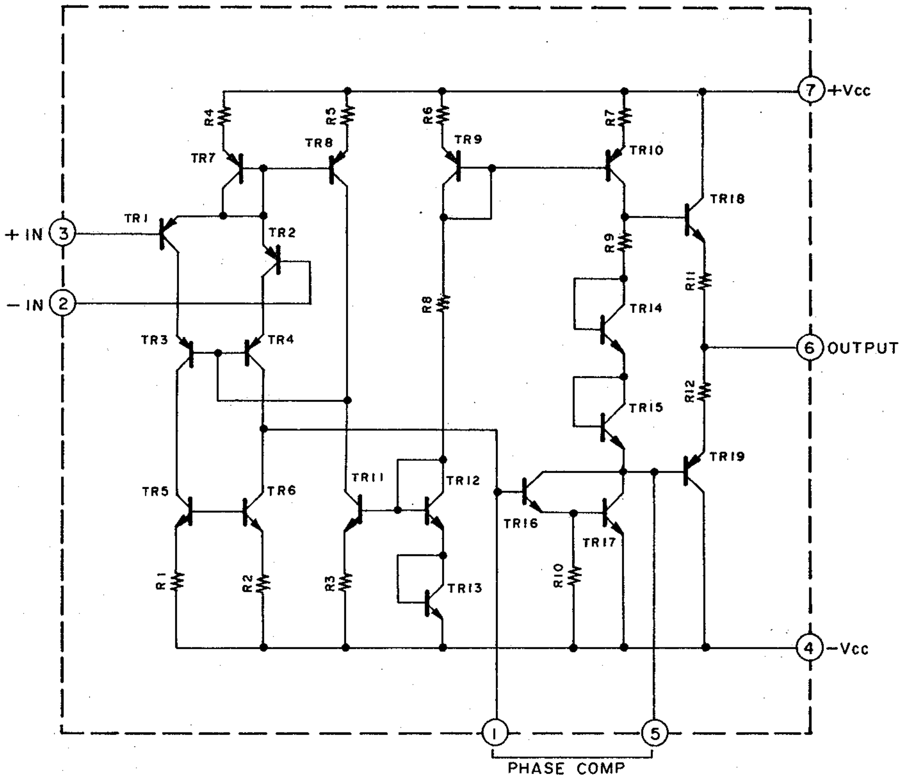

SEGMENT OUTPUT
VDD
VSS
INH1
1~4
22~35
37~42
㉑
㊱
⑰
⑮
⑯
VDD
VSS
rpd
SEGMENT DRIVER
⑭ TEST 1
rPU
VDD
LATCH
Fin-FM⑤
rf
AMP
CONTROL
FREQUENCY COUNTER
Fin-AM⑥
rf
AMP
FM-AM⑪
rPU
VDD
IF CONTROL
⑱ TEST 2
rPU
VDD
Vref⑨
TIMING CONTROL
IF FINE CONTROL
•AM 30 STEP
•FM 30 STEP
AM-Fine⑬
FM-Fine⑫
OSC-OUT⑲
OSC-IN⑳
rf
4,000,000 BIT COUNTER
rPU
rPU
rPU
VDD⑦
VDD⑩
VDD⑧
LC7259
FM IF
AM IF1
AM IF2

NOTE: rPU is a special-type resistor whose resistance will become the rated value at "H" level, and high at "L" level.

LM1111B

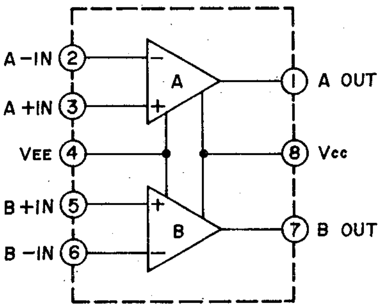

⑯
④
⑨
(internal link)
EK
⑤
A
B
C
D
G
⑥
②
⑦
③
⑧
④
①
⑩
⑪
⑫
⑬
⑭
⑮

M5214L



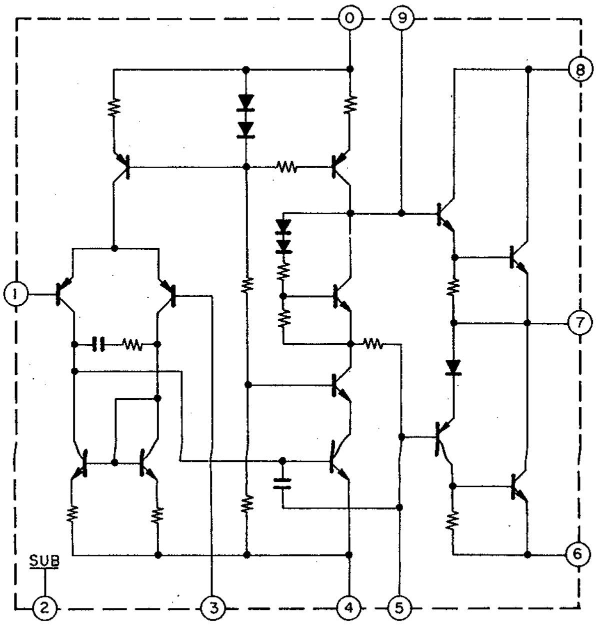
+IN 3
−IN 2
7 +Vcc
6 OUTPUT
4 −Vcc
1
5
PHASE COMP
TR1
TR2
TR3
TR4
TR5
TR6
TR7
TR8
TR9
TR10
TR11
TR12
TR13
TR14
TR15
TR16
TR17
TR18
TR19
R1
R2
R3
R4
R5
R6
R7
R8
R9
R10
R11
R12

NJM4556D
NJM4558DX
NJM4560DX



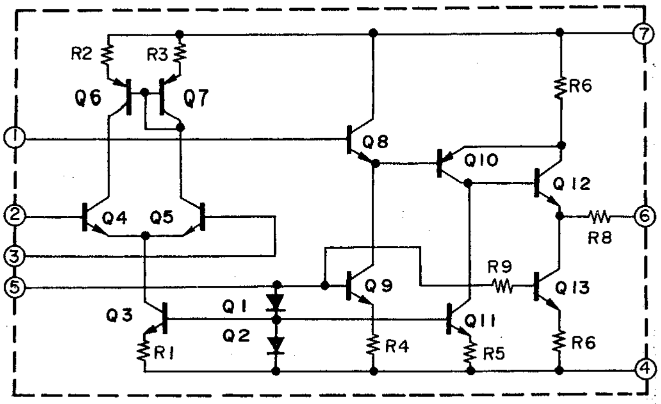
A −IN 2
A +IN 3
VEE 4
B +IN 5
B −IN 6
1 A OUT
8 Vcc
7 B OUT
A
B
−
+
+
−

STK082G-SL
STK084G-SL

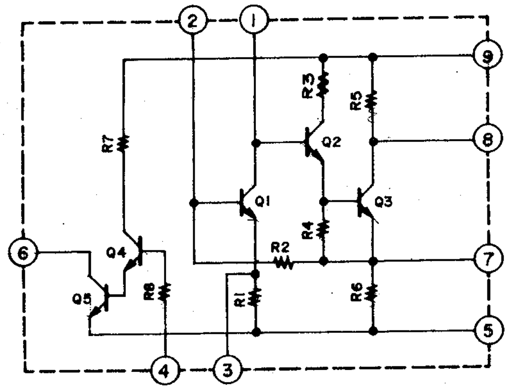


0
9
8
7
6
1
SUB
2
3
4
5

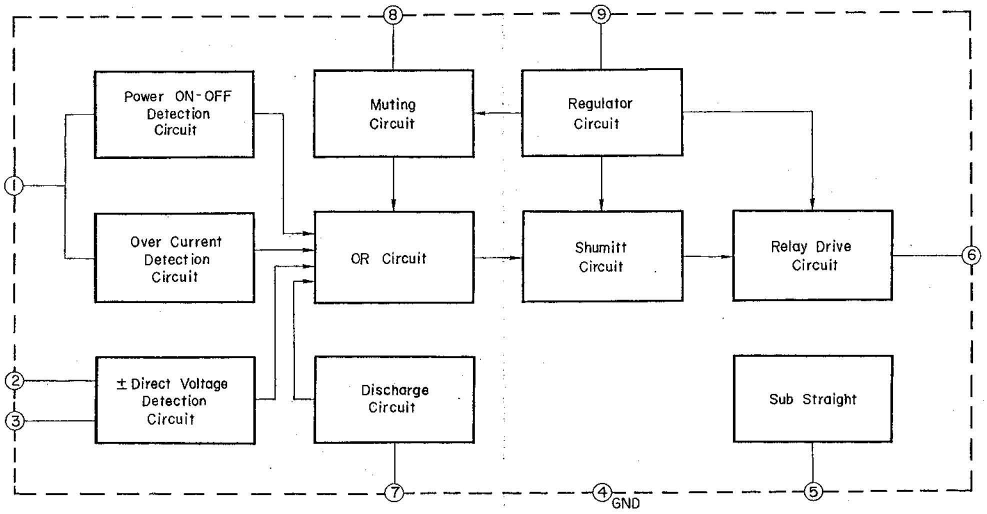
TA7136AP

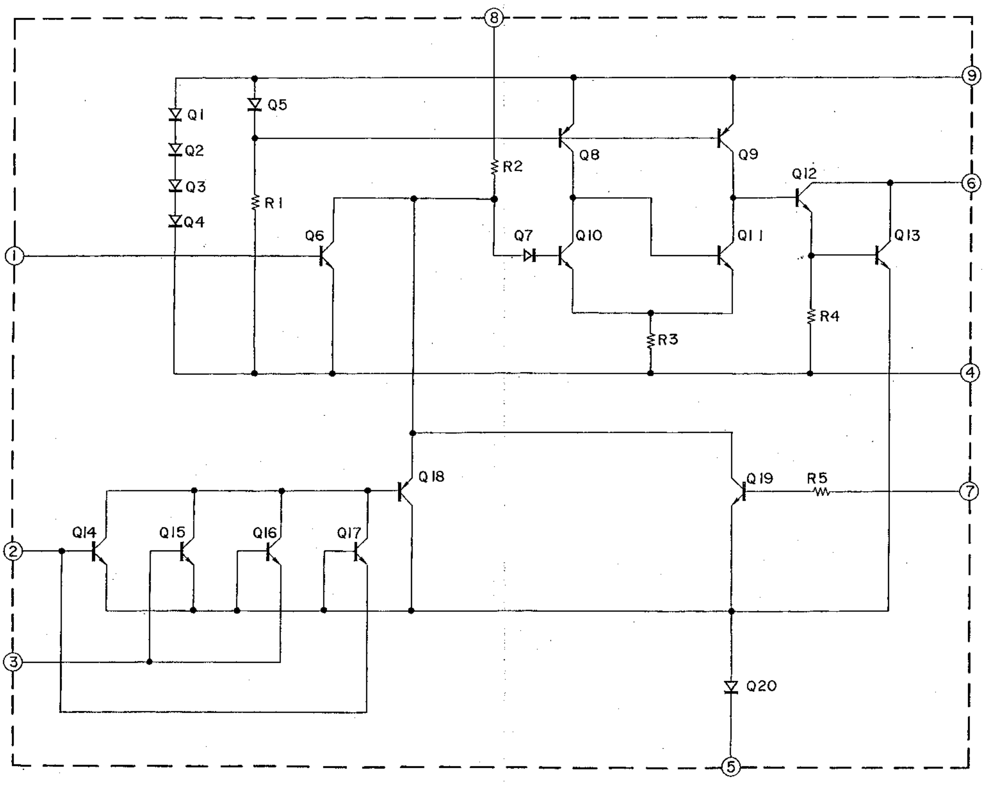

R2
R3
Q6
Q7
R6
Q8
Q10
Q12
Q4
Q5
R8
R9
Q9
Q13
Q1
Q2
Q3
Q11
R1
R4
R5
R6
1
2
3
4
5
6
7

TA7317P

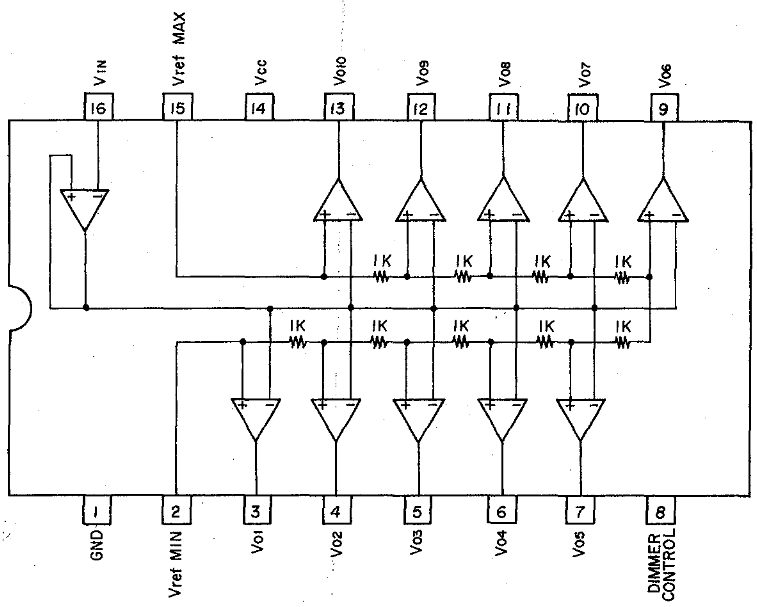

2
1
9
8
7
6
5
4
3
R3
R5
R7
Q2
Q1
Q3
Q4
Q5
R8
R4
R2
R1
R6

TA7137P


8
9
Power ON-OFF Detection Circuit
Muting Circuit
Regulator Circuit
1
Over Current Detection Circuit
OR Circuit
Shumitt Circuit
Relay Drive Circuit
6
2
3
± Direct Voltage Detection Circuit
Discharge Circuit
Sub Straight
7
4 GND
5

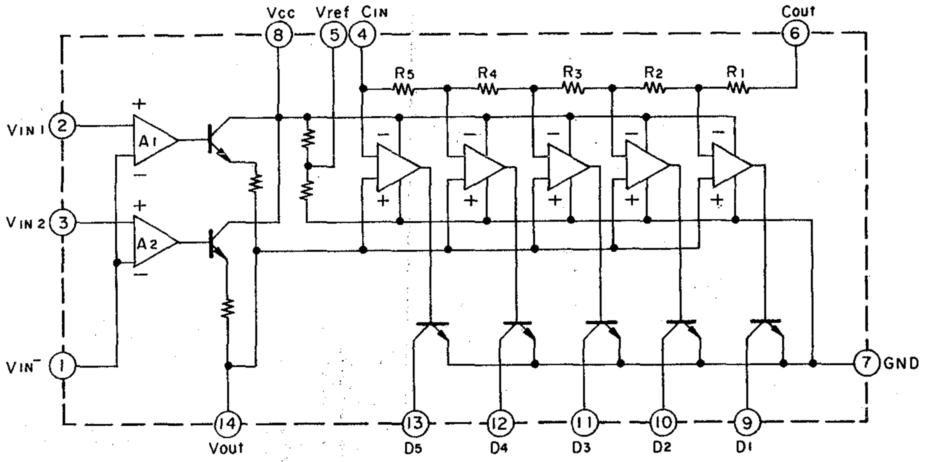

8
9
Q1
Q2
Q3
Q4
Q5
R1
R2
Q8
Q9
Q12
6
Q6
Q7
Q10
Q11
Q13
1
R3
R4
4
Q18
Q19
R5
7
Q14
Q15
Q16
Q17
2
3
Q20
5

TA7612AP



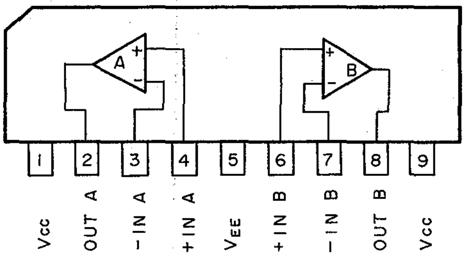
VIN
Vref MAX
Vcc
VO10
VO9
VO8
VO7
VO6
16
15
14
13
12
11
10
9
1K
1K
1K
1K
1K
1K
1K
1K
1K
1
2
3
4
5
6
7
8
GND
Vref MIN
VO1
VO2
VO3
VO4
VO5
DIMMER CONTROL

TA7654P



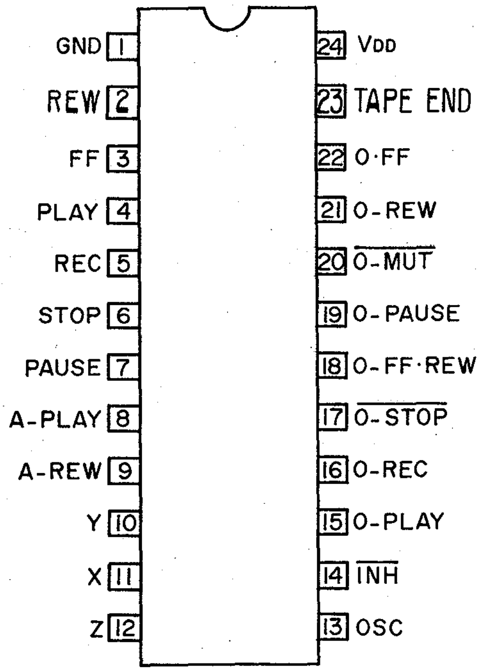
Vcc
Vref
CIN
Cout
8
5
4
6
R5
R4
R3
R2
R1
VIN 1
2
A1
VIN 2
3
A2
VIN⁻
1
7
GND
14
Vout
13
D5
12
D4
11
D3
10
D2
9
D1

TA75558S

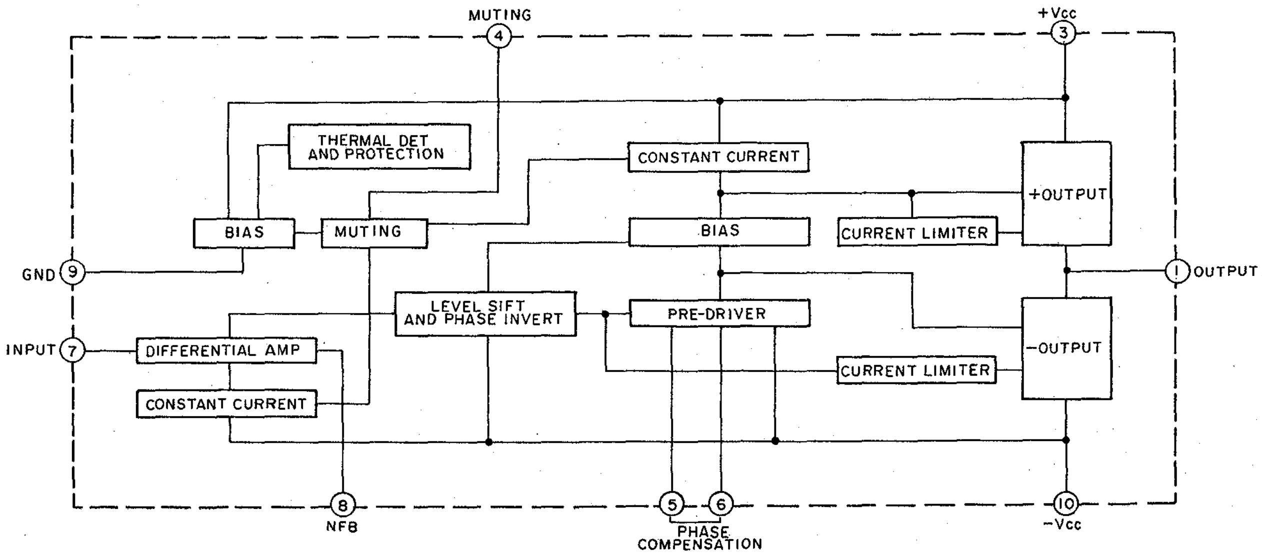


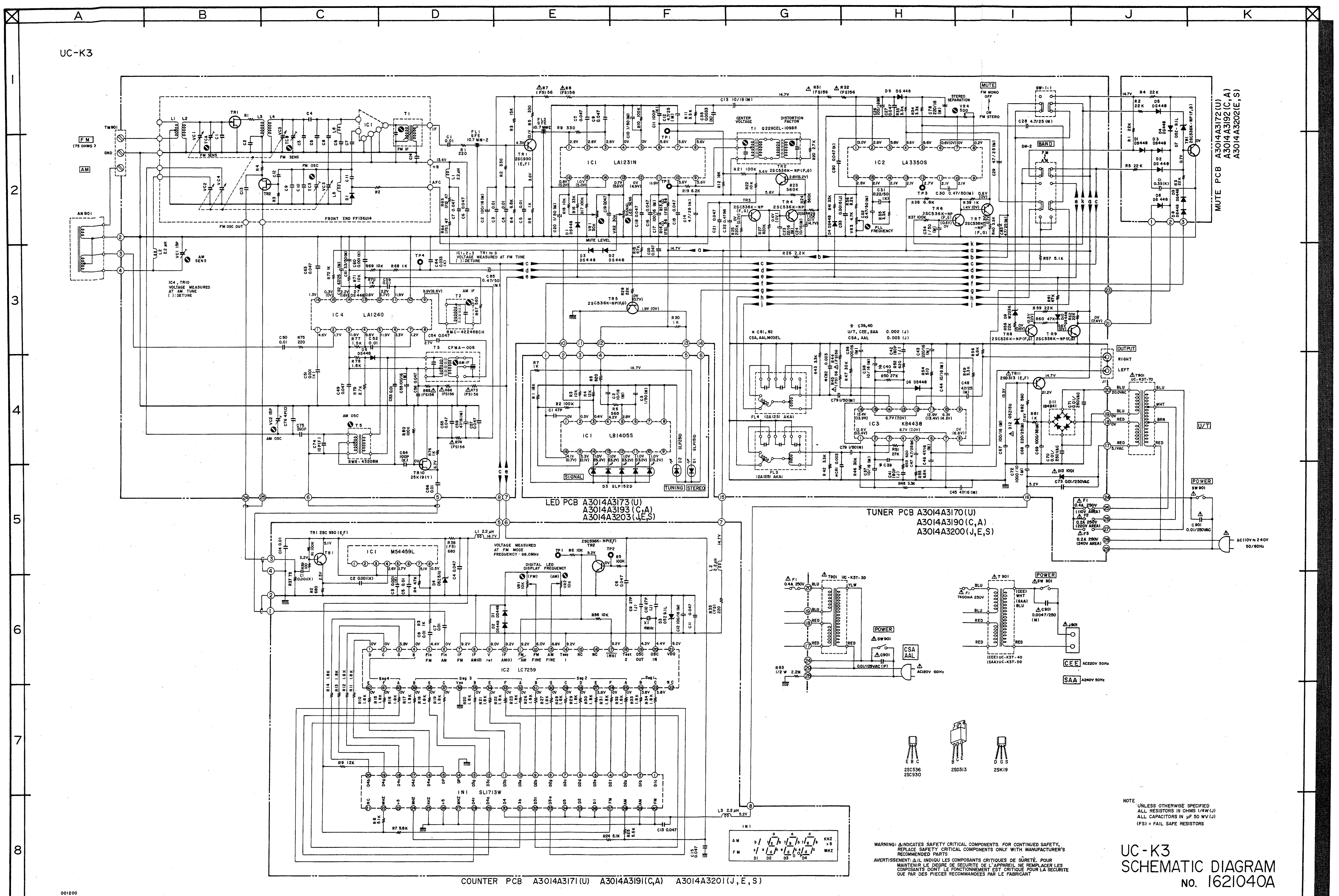
A
B
1
2
3
4
5
6
7
8
9
Vcc
OUT A
−IN A
+IN A
VEE
+IN B
−IN B
OUT B
Vcc

TC9121P


GND 1
REW 2
FF 3
PLAY 4
REC 5
STOP 6
PAUSE 7
A-PLAY 8
A-REW 9
Y 10
X 11
Z 12
13 OSC
14 $\overline{\text{INH}}$
15 O-PLAY
16 O-REC
17 $\overline{\text{O-STOP}}$
18 O-FF·REW
19 O-PAUSE
20 $\overline{\text{O-MUT}}$
21 O-REW
22 O·FF
23 TAPE END
24 VDD

μPC1188H


MUTING 4
+Vcc 3
THERMAL DET AND PROTECTION
CONSTANT CURRENT
+OUTPUT
BIAS
MUTING
BIAS
CURRENT LIMITER
GND 9
1 OUTPUT
LEVEL SIFT AND PHASE INVERT
PRE-DRIVER
INPUT 7
DIFFERENTIAL AMP
-OUTPUT
CURRENT LIMITER
CONSTANT CURRENT
8 NFB
5
6
PHASE COMPENSATION
10 -Vcc



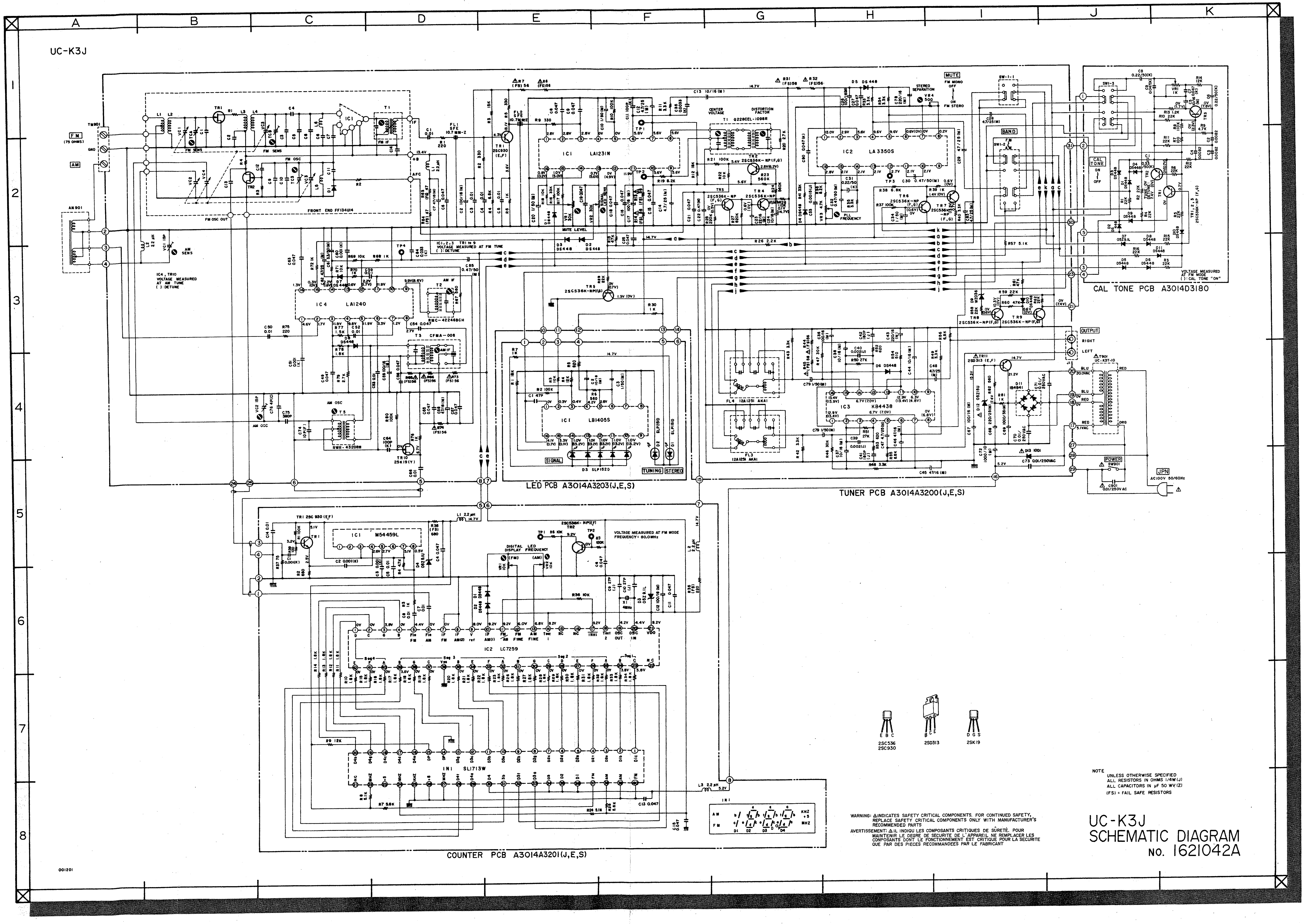
UC-K3
A
B
C
D
E
F
G
H
I
J
K
1
2
3
4
5
6
7
8
FM (75 OHMS)
AM
TM901
AN901
FRONT END FF136U14
FM SENS
FM OSC
AM SENS
IC4 LA1240
IC1 LA1231N
IC2 LA3350S
IC3 KB4438
MUTE
BAND
OUTPUT
RIGHT
LEFT
U/T
POWER
SW901
MUTE PCB A3014A3172(U) A3014A3192(C,A) A3014A3202(E,S)
LED PCB A3014A3173(U) A3014A3193(C,A) A3014A3203(J,E,S)
TUNER PCB A3014A3170(U) A3014A3190(C,A) A3014A3200(J,E,S)
COUNTER PCB A3014A3171(U) A3014A3191(C,A) A3014A3201(J,E,S)
IC1 LB1405S
SIGNAL
TUNING
STEREO
IC1 M54459L
IC2 LC7259
IN1 SL1713W
CSA AAL
CEE
SAA
AC110V to 240V 50/60Hz
AC120V 60Hz
AC220V 50Hz
AC240V 50Hz
E B C
2SC536
2SC930
B C E
2SD313
D G S
2SK19
001200

NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/4W (J)
ALL CAPACITORS IN μF 50 WV (J)
(FS) = FAIL SAFE RESISTORS

WARNING: △INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

AVERTISSEMENT: △IL INDIQU LES COMPOSANTS CRITIQUES DE SÛRETÉ. POUR MAINTENIR LE DEGRE DE SECURITE DE L'APPAREIL NE REMPLACER LES CONPOSANTS DONT LE FONCTIONNEMENT EST CRITIQUE POUR LA SECURITE QUE PAR DES PIECES RECOMMANDEES PAR LE FABRICANT

UC-K3
SCHEMATIC DIAGRAM
NO. 1621040A

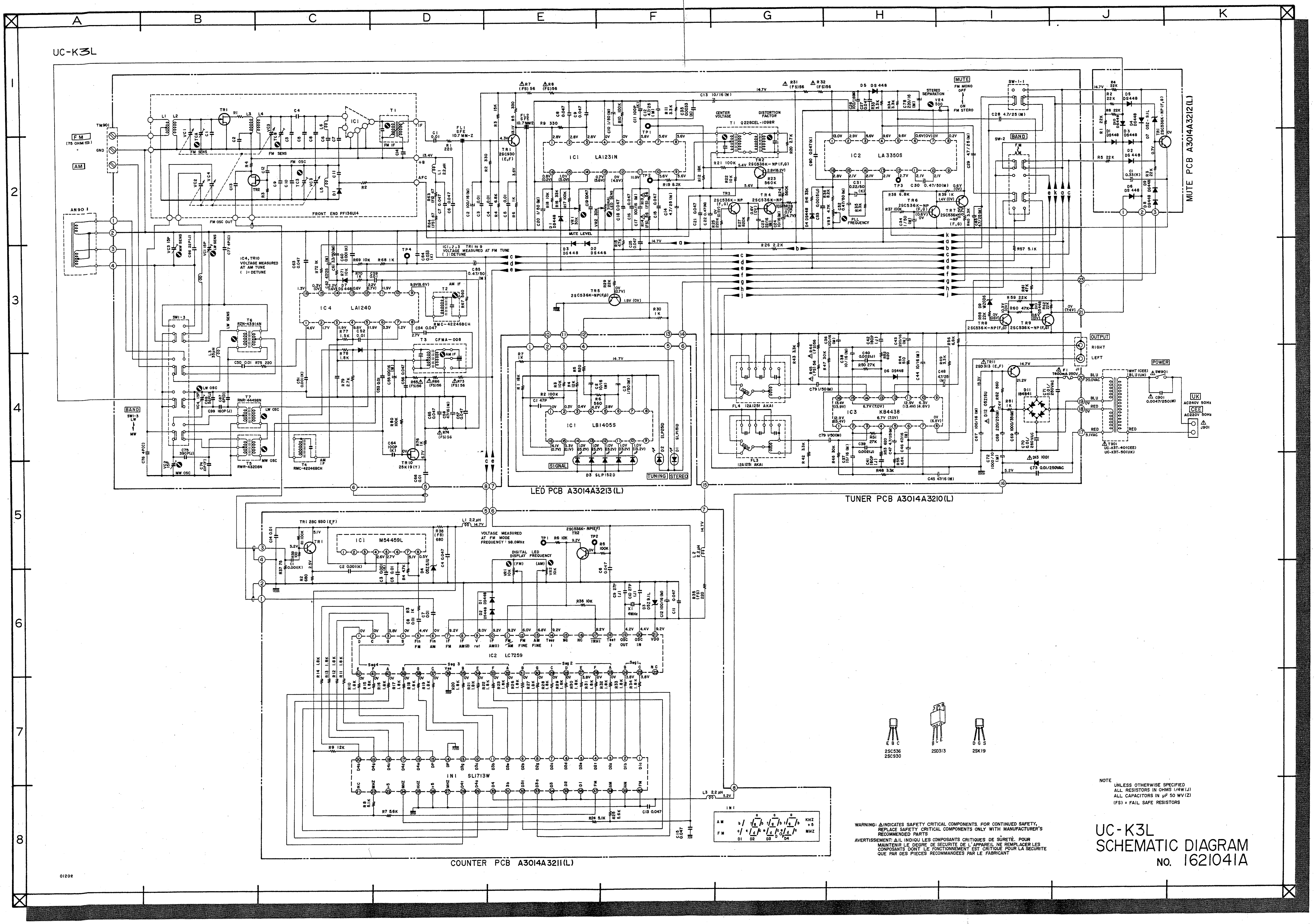

A
B
C
D
E
F
G
H
I
J
K
1
2
3
4
5
6
7
8
UC-K3J
TM901
FM (75 OHMS)
GND
AM
AN901
FRONT END FF134U14
FM SENS
FM OSC
FM IF
AM SENS
IC4, TR10 VOLTAGE MEASURED AT AM TUNE ( ):DETUNE
IC1,2,3 TR1~9 VOLTAGE MEASURED AT FM TUNE ( ):DETUNE
IC1 LA1231N
IC2 LA3350S
IC4 LA1240
IC3 KB4438
MUTE LEVEL
CENTER VOLTAGE
DISTORTION FACTOR
STEREO SEPARATION
PLL FREQUENCY
MUTE
FM MONO OFF
ON FM STEREO
BAND
CAL TONE
ON
OFF
CAL TONE PCB A3014D3180
VOLTAGE MEASURED AT FM MODE ( ):CAL TONE "ON"
OUTPUT
RIGHT
LEFT
POWER
JPN
AC100V 50/60Hz
IC1 LB1405S
SIGNAL
TUNING
STEREO
LED PCB A3014A3203(J,E,S)
TUNER PCB A3014A3200(J,E,S)
IC1 M54459L
IC2 LC7259
IN1 SL1713W
DIGITAL LED DISPLAY FREQUENCY
VOLTAGE MEASURED AT FM MODE FREQUENCY: 80.0MHz
COUNTER PCB A3014A3201(J,E,S)
KHZ
MHZ
AM
FM
D1
D2
D3
D4
E B C
2SC536
2SC930
B C E
2SD313
D G S
2SK19
001201

NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/4W(J)
ALL CAPACITORS IN μF 50 WV(Z)
(FS) = FAIL SAFE RESISTORS

WARNING: ⚠INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

AVERTISSEMENT: ⚠IL INDIQU LES COMPOSANTS CRITIQUES DE SÛRETÉ. POUR MAINTENIR LE DEGRE DE SECURITE DE L'APPAREIL NE REMPLACER LES CONPOSANTS DONT LE FONCTIONNEMENT EST CRITIQUE POUR LA SECURITE QUE PAR DES PIECES RECOMMANDEES PAR LE FABRICANT

UC-K3J
SCHEMATIC DIAGRAM
NO. 1621042A

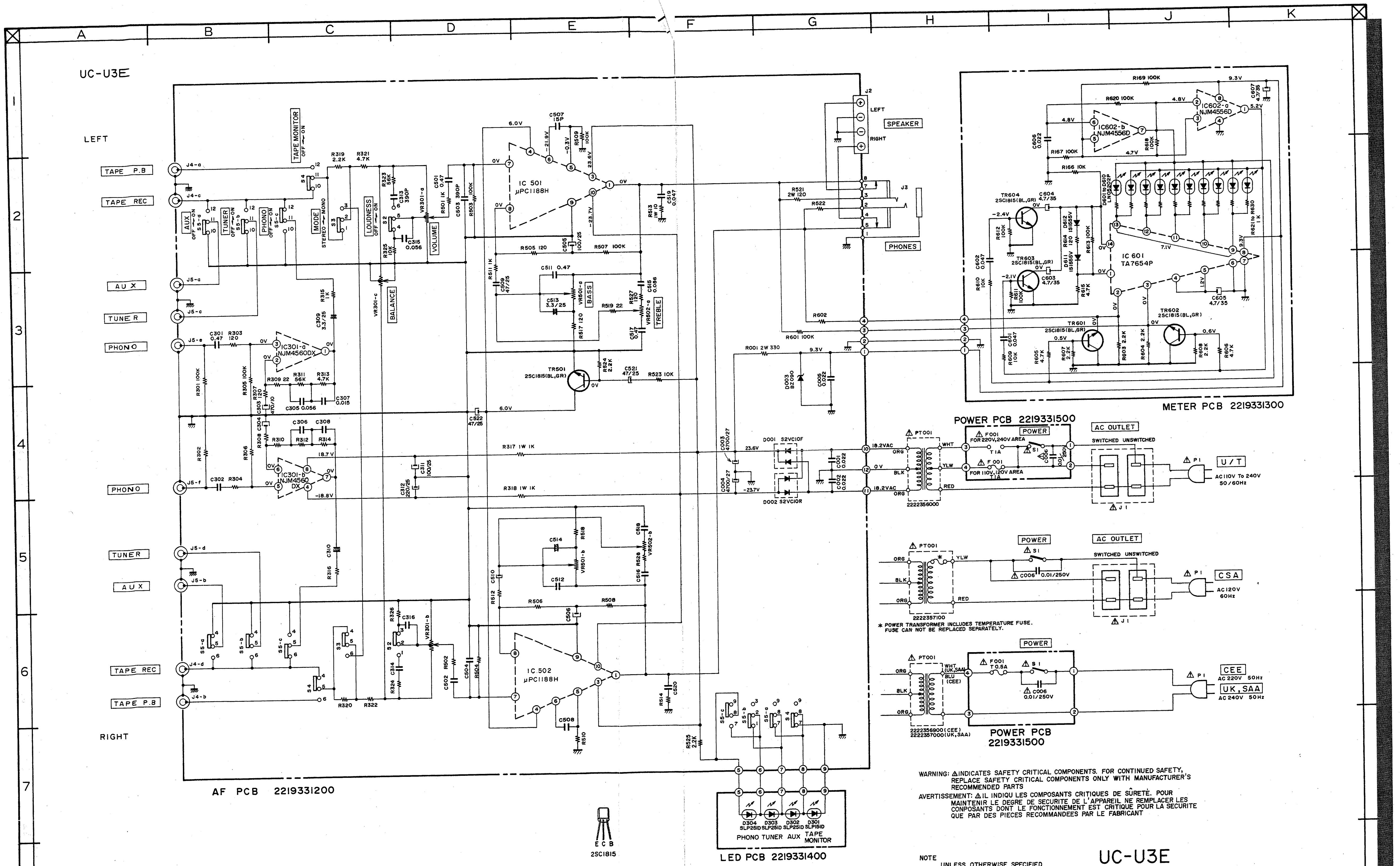

UC-K3L
A
B
C
D
E
F
G
H
I
J
K
1
2
3
4
5
6
7
8
FM
(75 OHM)
AM
TM901
AN901
FRONT END FF136U14
IC4, TR10 VOLTAGE MEASURED AT AM TUNE ( ): DETUNE
IC4 LA1240
IC1 LA1231N
IC2 LA3350S
IC3 KB4438
IC1 LB1405S
D3 SLP1520
SIGNAL
TUNING
STEREO
LED PCB A3014A3213(L)
TUNER PCB A3014A3210(L)
MUTE PCB A3014A3212(L)
MUTE
BAND
OUTPUT
RIGHT
LEFT
POWER
UK
CEE
AC240V 50Hz
AC220V 50Hz
J901
T901 UC-K3T-40I(CEE) UC-K3T-50I(UK)
VOLTAGE MEASURED AT FM MODE FREQUENCY: 98.0MHz
DIGITAL LED DISPLAY FREQUENCY
IC1 M54459L
IC2 LC7259
IN1 SL1713W
COUNTER PCB A3014A3211(L)
2SC536
2SC930
2SD313
2SK19
E B C
B C E
D G S
01202

NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/4W(J)
ALL CAPACITORS IN μF 50 WV(Z)
(FS) = FAIL SAFE RESISTORS

WARNING: ⚠ INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

AVERTISSEMENT: ⚠ IL INDIQU LES COMPOSANTS CRITIQUES DE SÛRETÉ. POUR MAINTENIR LE DEGRE DE SECURITE DE L'APPAREIL NE REMPLACER LES CONPOSANTS DONT LE FONCTIONNEMENT EST CRITIQUE POUR LA SECURITE QUE PAR DES PIECES RECOMMANDEES PAR LE FABRICANT

UC-K3L
SCHEMATIC DIAGRAM
NO. 1621041A

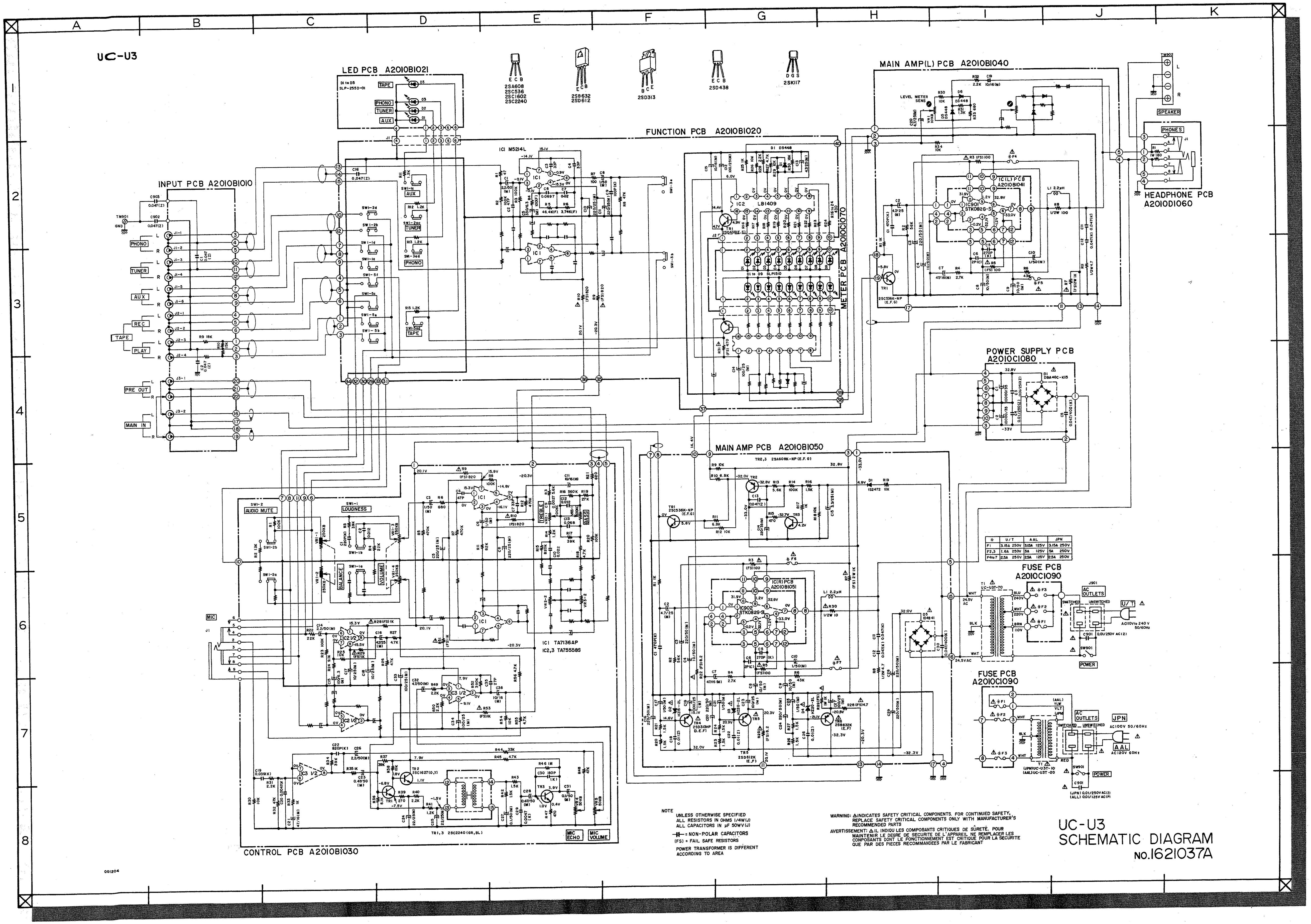

UC-U3E
LEFT
RIGHT
TAPE P.B
TAPE REC
AUX
TUNER
PHONO
TAPE MONITOR OFF ON
MODE STEREO MONO
LOUDNESS OFF ON
VOLUME
BALANCE
BASS
TREBLE
IC 501 μPC1188H
IC 502 μPC1188H
IC301-a NJM4560DX
IC301-b NJM4560 DX
TR501 2SC1815(BL,GR)
SPEAKER
LEFT
RIGHT
PHONES
J2
J3
IC602-a NJM4556D
IC602-b NJM4556D
IC 601 TA7654P
TR601 2SC1815(BL,GR)
TR602 2SC1815(BL,GR)
TR603 2SC1815(BL,GR)
TR604 2SC1815(BL,GR)
METER PCB 2219331300
POWER PCB 2219331500
POWER
AC OUTLET
SWITCHED UNSWITCHED
U/T
AC110V To 240V 50/60Hz
CSA
AC120V 60Hz
CEE
AC 220V 50Hz
UK, SAA
AC 240V 50Hz
* POWER TRANSFORMER INCLUDES TEMPERATURE FUSE. FUSE CAN NOT BE REPLACED SEPARATELY.
2222356000
2222357100
2222356900(CEE)
2222357000(UK,SAA)
POWER PCB 2219331500
AF PCB 2219331200
LED PCB 2219331400
PHONO TUNER AUX TAPE MONITOR
D304 SLP251D
D303 SLP251D
D302 SLP251D
D301 SLP151D
E C B
2SC1815
22959833

WARNING: ⚠INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

AVERTISSEMENT: ⚠IL INDIQU LES COMPOSANTS CRITIQUES DE SÛRETÉ. POUR MAINTENIR LE DEGRE DE SECURITE DE L'APPAREIL NE REMPLACER LES CONPOSANTS DONT LE FONCTIONNEMENT EST CRITIQUE POUR LA SECURITE QUE PAR DES PIECES RECOMMANDEES PAR LE FABRICANT

NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/4W(J)
ALL CAPACITORS IN μF 50 WV(J)
-‖- = NON POLER CAPACITORS

UC-U3E
SCHEMATIC DIAGRAM
NO. 1621038A


UC-U3
LED PCB A2010B1021
INPUT PCB A2010B1010
FUNCTION PCB A2010B1020
METER PCB A2010C1070
MAIN AMP(L) PCB A2010B1040
IC(L) PCB A2010B1041
HEADPHONE PCB A2010D1060
POWER SUPPLY PCB A2010C1080
MAIN AMP PCB A2010B1050
IC(R) PCB A2010B1051
FUSE PCB A2010C1090
CONTROL PCB A2010B1030
2SA608 2SC536 2SC1602 2SC2240
2SB632 2SD612
2SD313
2SD438
2SK117
TAPE
PHONO
TUNER
AUX
REC
PLAY
PRE OUT
MAIN IN
SPEAKER
PHONES
AUDIO MUTE
LOUDNESS
BALANCE
VOLUME
TREBLE
BASS
MIC
MIC ECHO
MIC VOLUME
AC OUTLETS
SWITCHED
UNSWITCHED
POWER
U/T
JPN
AAL
IC1 M5214L
IC2 LB1409
IC901 STK082G-S
IC902 STK082G-S
IC1 TA7136AP
IC2,3 TA75558S
T1 UC-U3T-70
(JPN)UC-U3T-10
(AAL)UC-U3T-20
LEVEL METER SENS

※	U/T	AAL	JPN
F1	3.15A 250V	3.15A 125V	3.15A 250V
F2,3	1.6A 250V	5A 125V	5A 250V
F4to7	2.5A 250V	2.5A 125V	2.5A 250V

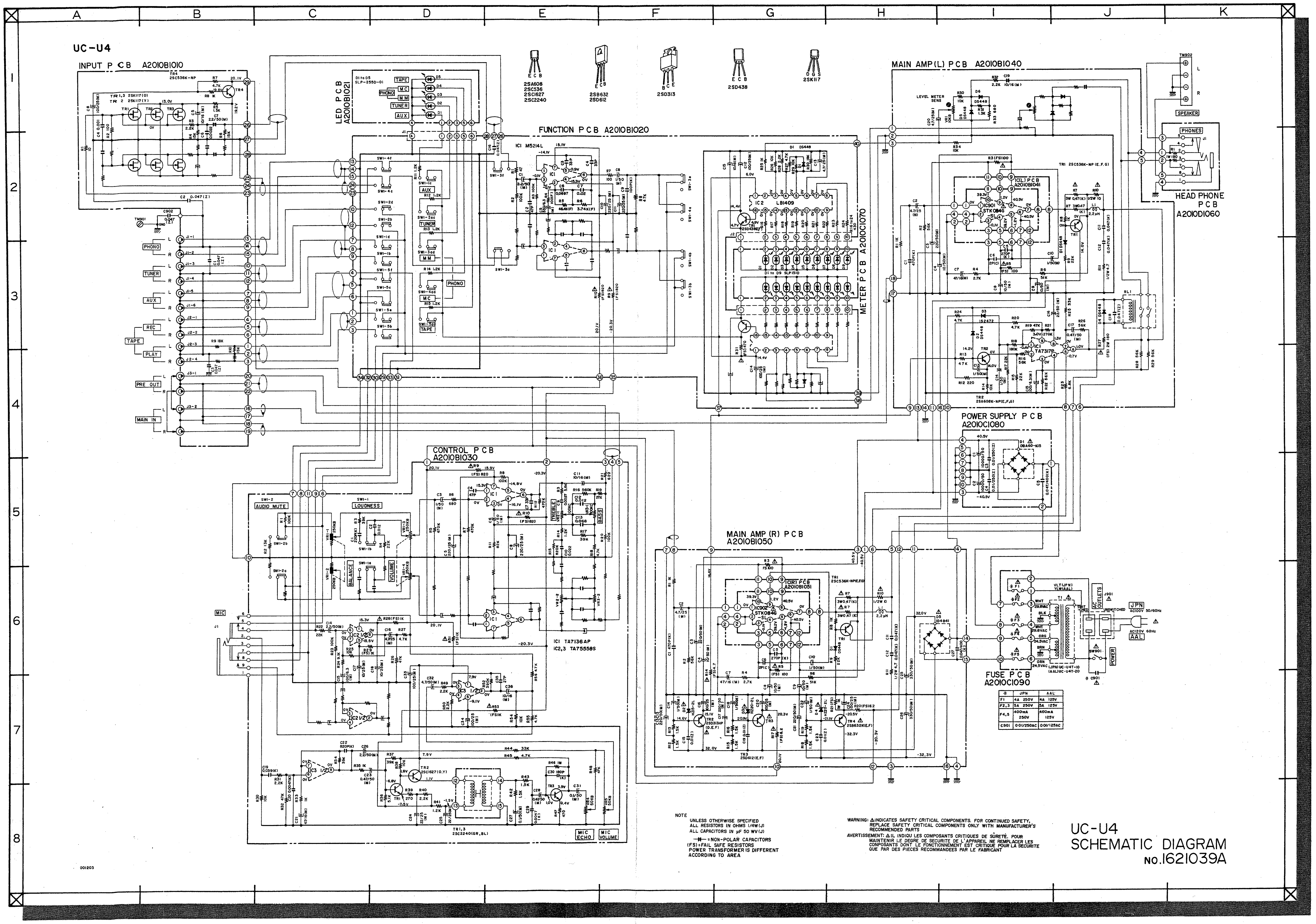
NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/4W(J)
ALL CAPACITORS IN μF 50WV(J)
—‖— = NON-POLAR CAPACITORS
(FS) = FAIL SAFE RESISTORS
POWER TRANSFORMER IS DIFFERENT ACCORDING TO AREA

WARNING: ⚠ INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

AVERTISSEMENT: ⚠ IL INDIQU LES COMPOSANTS CRITIQUES DE SÛRETÉ. POUR MAINTENIR LE DEGRE DE SECURITE DE L'APPAREIL NE REMPLACER LES COMPOSANTS DONT LE FONCTIONNEMENT EST CRITIQUE POUR LA SECURITE QUE PAR DES PIECES RECOMMANDEES PAR LE FABRICANT

UC-U3
SCHEMATIC DIAGRAM
No.1621037A

001204


UC-U4
INPUT P C B A2010B1010
LED P C B A2010B1021
FUNCTION P C B A2010B1020
METER P C B A2010C1070
MAIN AMP (L) P C B A2010B1040
HEAD PHONE P C B A2010D1060
POWER SUPPLY P C B A2010C1080
CONTROL P C B A2010B1030
MAIN AMP (R) P C B A2010B1050
FUSE P C B A2010C1090
PHONO
TUNER
AUX
REC
PLAY
TAPE
PRE OUT
MAIN IN
MIC
SPEAKER
PHONES
AUDIO MUTE
LOUDNESS
BALANCE
VOLUME
TREBLE
BASS
MIC ECHO
MIC VOLUME
JPN
AAL
POWER
AC OUTLETS
2SA608 2SC536 2SC1627 2SC2240
2SB632 2SD612
2SD313
2SD438
2SK117
IC1 TA7136AP
IC2,3 TA75558S
(JPN) UC-U4T-10
(AAL) UC-U4T-20
001203

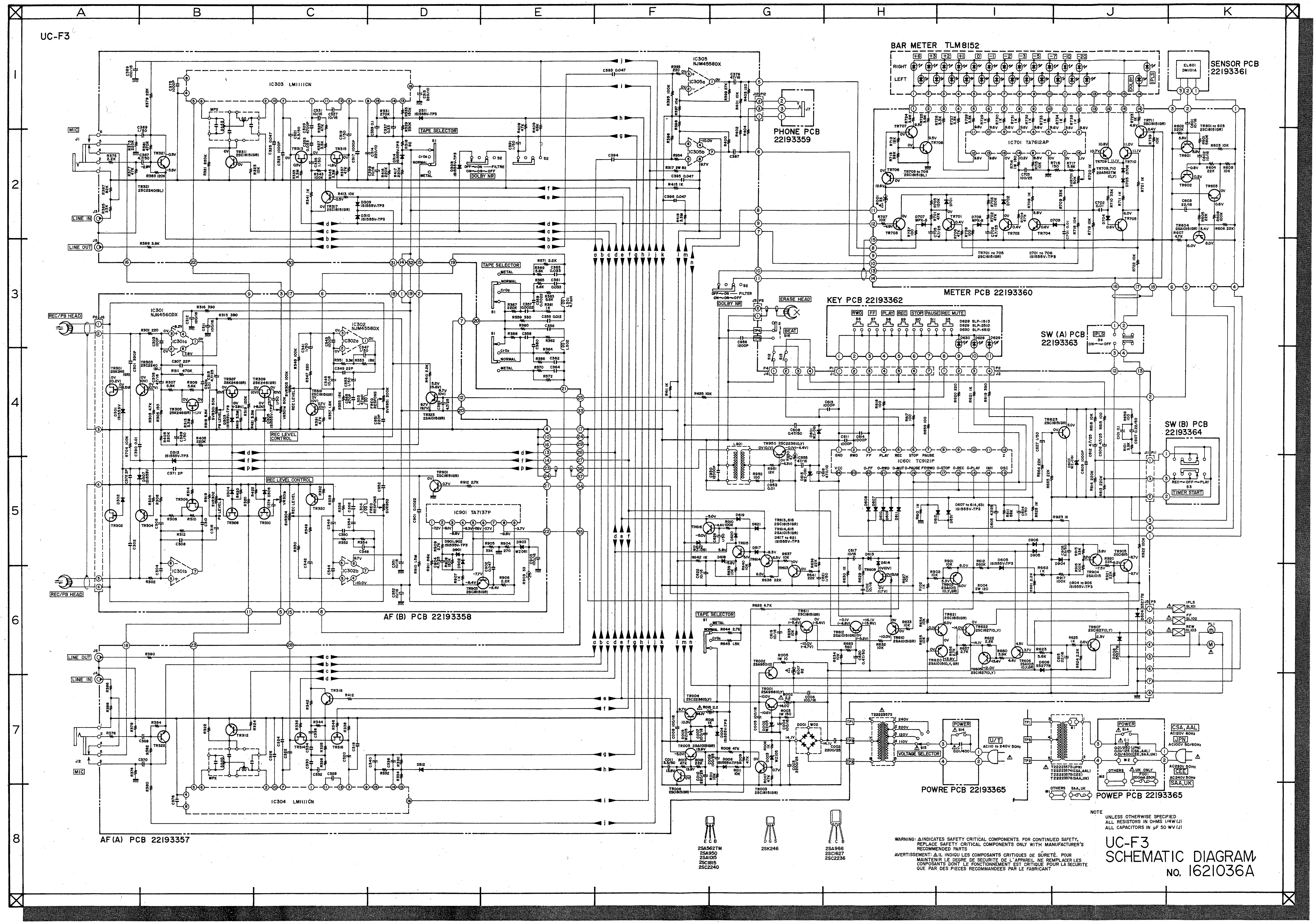
※	JPN	AAL
F1	4A 250V	4A 125V
F2,3	5A 250V	5A 125V
F4,5	400mA 250V	400mA 125V
C901	0.01/250AC	0.01/125AC

NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/4W (J)
ALL CAPACITORS IN μF 50 WV (J)
—‖— = NON-POLAR CAPACITORS
(FS) = FAIL SAFE RESISTORS
POWER TRANSFORMER IS DIFFERENT
ACCORDING TO AREA

WARNING: △INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

AVERTISSEMENT: △IL INDIQU LES COMPOSANTS CRITIQUES DE SÛRETÉ. POUR MAINTENIR LE DEGRE DE SECURITE DE L'APPAREIL NE REMPLACER LES CONPOSANTS DONT LE FONCTIONNEMENT EST CRITIQUE POUR LA SECURITE QUE PAR DES PIECES RECOMMANDEES PAR LE FABRICANT

UC-U4
SCHEMATIC DIAGRAM
NO.1621039A


UC-F3
BAR METER TLM8152
SENSOR PCB 22193361
PHONE PCB 22193359
IC303 LM1111CN
IC305 NJM4558DX
IC701 TA7612AP
METER PCB 22193360
IC301 NJM4560DX
IC302 NJM4558DX
KEY PCB 22193362
SW (A) PCB 22193363
SW (B) PCB 22193364
IC601 TC9121P
IC901 TA7137P
AF (B) PCB 22193358
TAPE SELECTOR
DOLBY NR
REC LEVEL CONTROL
ERASE HEAD
REC/PB HEAD
MIC
LINE IN
LINE OUT
TIMER START
VOLTAGE SELECTOR
POWRE PCB 22193365
POWEP PCB 22193365
IC304 LM1111CN
AF (A) PCB 22193357
2SA562TM
2SA950
2SA1015
2SC1815
2SC2240
2SK246
2SA966
2SC1627
2SC2236

NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/4W (J)
ALL CAPACITORS IN μF 50 WV (J)

WARNING: ⚠ INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

AVERTISSEMENT: ⚠ IL INDIQU LES COMPOSANTS CRITIQUES DE SÛRETÉ. POUR MAINTENIR LE DEGRE DE SECURITE DE L'APPAREIL NE REMPLACER LES CONPOSANTS DONT LE FONCTIONNEMENT EST CRITIQUE POUR LA SECURITE QUE PAR DES PIECES RECOMMANDEES PAR LE FABRICANT

UC-F3
SCHEMATIC DIAGRAM
NO. 1621036A